Product Guide
Fire Detection Systems

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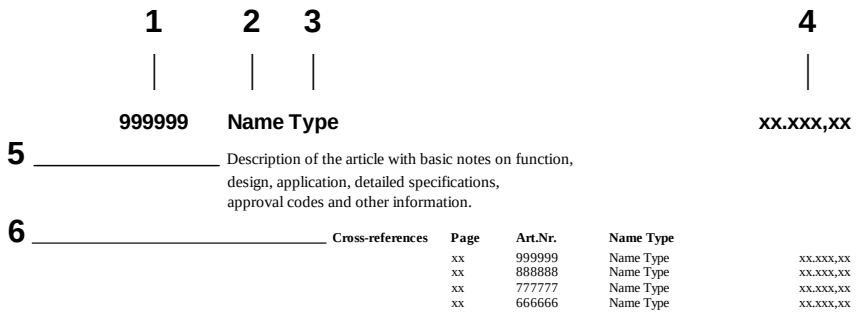
Please always refer to the article number of the products when making an inquiry or when placing an order.

Example of an article entry



1 … Article number; please always refer to this number on inqiries or orders to avoid mistakes.

2 … Product name

3 … Type; the type is a string of alpha-numerical characters and symbols without blank characters and is separated from the product name by one blank character.

4 … Price per unit (generally per piece)

5 … Product description, details on approvals and examinations, specifications

6 … Cross-references to other products of the Product Guide which are in direct connection with the chosen product. These cross-references present a list of possibilities which are of exemplary nature only; the products listed therein must not necessarily be working altogether.

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1 Fire Detection Control Panels Series BC06

210205 Fire Detection Control Panel BC06-1/INT1

The Fire Detection Control Panel BC06-1/INT1 is a compact control panel for small conventional fire detection systems. Depending on the level of expansion, fire detectors, fault detectors and condition detectors can be connected to a maximum of 6 conventional detector lines. Outputs for two alarming devices are provided as well. The control panel was tested by VdS, according to the construction Products Directive CPD, for compliance according to the European Standards EN 54-2 and EN 54-4.

The control panel is integrated in a wall-mount cabinet. The cabinet consists of a powder coated steel sheet base and a removable plastic cabinet cover. In the basic version, the control panel contains 4 conventional detector zones, 2 parameterisable inputs, 2 independently monitored siren outputs and 2 relay outputs. The Fire Detection Control Panel Series BC06 can be extended to 6 detector zones by the installation of the Zone Extension Board ZEB2-1. In addition, the wall-mount cabinet can accommodate an optional componentry (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.) as well as stand-by batteries 2 × 12V/max. 7Ah. Enclosed with the control panel is a documentation in English language.

The initial commissioning of the control panel is significantly facilitated by the practical factory settings. The system-specific parameterisation of the control panel can be directly accomplished via the keypad of the integrated display and operating field without the requirement of any additional support.

Essential features

- RISC microprocessor technology
- Administration of up to 6 detector zones for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property
- With the help of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished by the Fire Detection Control Panel Series BC06
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected via parameterisation
- Two monitored outputs for the connection of external alarming devices with the possibility of individual activation via 'and/or' combinations
- Independent indication of activation, fault and disablement of the alarming devices as well as independent operation via one button per alarming device
- Summary LED indicators for information about all current events
- 8 LED pairs are automatically assigned to parameterised zones and alarming devices and display the activation, disablement and fault condition
- Displays can be labelled individually with labelling strips, which are inserted into the front foil
- Event memory for the last 50 events in chronological order, to be output via the serial interface
- 2 dry contact outputs. These outputs are pre-set in the factory settings according to EN 54 standards (summary alarm and summary fault)
- 8 open-collector outputs, that automatically signal the activated condition of each zone and one summary output each for fault condition and disabled condition of the zones
- Button 'Panel reset' for common reset of all current events
- 3 authorisation levels for operation and parameterisation, secured by numeric codes
- A mounting position for a Serial Interface Module SIM06-1, for connection of a serial protocol printer

- Control panel case provides space for accommodating stand-by batteries 2 × 12V/max. 7Ah.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren outputs	
Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Current consumption at 24V	
(without optional modules)	typ. 70mA (end-of-line resistor 5.6kOhm)
	typ. 55mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm)
	typ. 0.35mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	tested to EN 54-2, -4 by VdS

Cross-references	Page	Art.No.	Name Type
	5	210212	Front Foil Evacuation Circuit FFEV06-1
	5	249096	MCP Coding Module MCM1-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	4	210215	Serial Interface Module SIM06-1
	68	223026	Siren Connection Module SZ58-3
	336	310001	Stand-By Battery 12V/7AH
	3	210210	Zone Extension Board BC06 ZEB2-1

210200 Fire Detection Control Panel BC06-1/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-1/INT1 but the manual comes in German language.

210211 Fire Detection Control Panel BC06-1/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC06-1 correspond to those of the Fire Detection Control Panel BC06-1/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

Enclosed with the control panel is a documentation in Swedish language.

210209 Fire Detection Control Panel BC06-2/INT1

Same design as Fire Detection Control Panel BC06-1, but includes a 4-digit, non-resettable alarm counter in the display and operating field, according to EN 54-2. Enclosed with the control panel is a documentation in English language.

Specifications

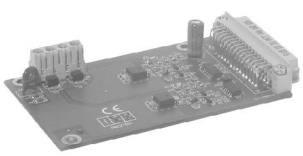
Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren output	
Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Current consumption at 24V	
(without optional devices)	typ. 70mA (end-of-line resistor 5.6kOhm)
	typ. 55mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm)
	typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	tested to EN 54-2, -4, by VdS

Cross-references	Page	Art.No.	Name Type
	5	210212	Front Foil Evacuation Circuit FFEV06-1
	5	249096	MCP Coding Module MCM1-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	4	210215	Serial Interface Module SIM06-1
	68	223026	Siren Connection Module SZ58-3
	336	310001	Stand-By Battery 12V/7AH
	3	210210	Zone Extension Board BC06 ZEB2-1

210208 Fire Detection Control Panel BC06-2/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-2/INT1 but the manual comes in German language.

210210 Zone Extension Board BC06 ZEB2-1



The Zone Extension Board ZEB2-1 extends the Fire Detection Control Panel Series BC06 by 2 detector zones in conventional technology.

Features

- 2 detector lines in conventional technology, that can be individually configured as detector zone

for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property

- By means of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected separately for both zones of the Zone Extension Board ZEB2-1 via parameterisation at the control panel
- Monitoring of detector lines for wire breakage, short circuit and earth fault

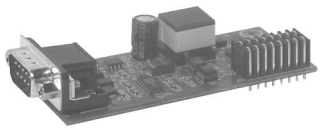
Specifications

Current consumption at 24V	typ. 14mA (end-of-line resistor 5.6kOhm) typ. 7mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient Temperature	-5°C to +50°C
Dimensions L × W × H	103 × 58 × 15 (mm)
Weight	34g

Cross-references	Page	Art.No.	Name Type
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	5	249096	MCP Coding Module MCM1-1

210215 Serial Interface Module SIM06-1

The Serial Interface Module SIM06-1 extends the Fire Detection Control Panel Series BC06 by one galvanically isolated RS232C interface for the connection of a serial protocol printer.



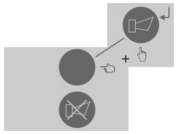
Specifications

Current consumption at 24V	typ. 15mA
Interface	RS232C, galvanically isolated
Data transfer lines	RxD, TxD
Baudrate	1200, 2400, 4800 baud
Type of connection	D-SUB connector, 9-pin
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	88 × 35 × 17 (mm)
Weight	32g

Cross-references	Page	Art.No.	Name Type
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1

210212 Front Foil Evacuation Circuit FFEV06-1

The self-adhesive plastic foil serves for the labelling of three additional function keys in the display and operating field of the Fire Detection Control Panel Series BC06. These keys are used for the function 'Alarming device configured as Evacuation Circuit / NEN 2575'.



Specifications

Dimensions W × H	56 × 42 (mm)
Colour	light grey, RAL 7035

Cross-references	Page	Art.No.	Name Type
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1

249096 MCP Coding Module MCM1-1

The MCP Coding Module MCM1-1 enables the combined connection of automatic detectors and manual call points to one detector line of a Fire Detection Control Panel Series BC06. The control panel can distinguish the activation of an automatic detector from the activation of a manual call point with the help of the coding module and can react accordingly. The coding module is optionally installed in every manual call point on the respective zone.

Specifications

Current consumption at 24V	typ. 20mA (detector activated)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	30 × 18 × 4 (mm) without leads
Weight	6g

Cross-references	Page	Art.No.	Name Type
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1

2 Fire Detection Control Panels Series BC016

210102 Fire Detection Control Panel BC016-1/INT1

The Fire Detection Control Panel BC016-1/INT1 is a compact control panel for small and medium-size fire detection systems in conventional technology. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors to a maximum of 16 detector lines in addressable conventional technology. Furthermore, up to 16 actuations, 9 alarming devices and 3 transmitting devices can be connected. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

The control panel is installed in a powder coated sheet steel wall-mount case. The basic version of the control panel includes 8 detector zones in addressable conventional technology, 2 freely parameterisable inputs and 3 relay outputs. The Fire Detection Control Panel Series BC016 can be extended to 16 detector zones by installing a Detector Zone Extension MGE8-1 and can be provided with a Fire Brigade Interface FWI016-1. The wall-mount case furthermore provides for the possible installation of up to 3 optional componentries (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.), as well as of stand-by batteries with 2 × 12V/max. 22Ah. The labels of display and operating elements as well as the displayed and printer texts are in English language. Enclosed with the control panel is a documentation in English language.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows Parameter Setup Software PARSOFT-1. Additionally, the parameter setup can be accomplished without any further tools by using the keypad of the integrated display and operating field of the control panel. The fire detection control panel comes with a default setup, which allows for a particularly easy commissioning.

Most important features

- RISC micro-processor technology
- Administration of up to 16 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Administration of 3 transmitting devices, 9 alarming devices and 16 actuations
- INFO field with a 2 line by 16 character text display providing information about all current events
- Info button for additional information on the current events
- 16 double LEDs (left hand side: red, right hand side: yellow), automatically assigned to the parameterised zones and displaying the activation as well as the disablement or fault condition of the zones
- Designation labels allow for individual marking of every double LED
- The event memory stores the latest 200 events in chronological order
- Display of activation, fault, disablement, alarm delay, call fire brigade and confirmation of the transmitting device to the fire brigade
- Monitored output for the connection of external signalling devices with display of activation, fault or disablement
- 3 dry, freely parameterisable contact outputs; default setup includes two outputs preset for EN 54 requirements (summary alarm and summary fault)

- 16 open-collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions
- „and/or“-combinations for actuations, transmitting devices or alarming devices
- Collective reset of all current alarms via “Panel reset” button
- Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes
- Alarm delay with dead-man’s handle controlled by internal timer which can be set separately for each day of the week
- Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- Non-resettable electronic event counter
- 1 mounting position for serial interface SIM216-1 (RS232C interface for the connection of a PC with Windows Parameter Setup Software PARSOFT-1 or a serial protocol printer) or SIM016-3 (INFO bus interface for the connection of fire brigade control units and intelligent remote tableaus)
- Stand-by batteries 2 × 12V/max. 22Ah can be installed in the control panel's wall-mount case

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 70mA (without optional componentries)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm/3.3kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	380 × 480 × 83 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 5kg
Approval	VdS G205023

Cross-references	Page	Art.No.	Name Type
	9	210110	Detector Zone Extension BC016 MGE8-1
	10	210111	Fire Brigade Interface FWI016-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	10	210112	Serial Interface Module SIM016-3
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

210100 Fire Detection Control Panel BC016-1/D1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-1/INT1. The labels of display and operating elements, the displayed and printer texts as well as the documentation are in German language.

210103 Fire Detection Control Panel BC016-1/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC016-1 correspond to those of the Fire Detection Control Panel BC016-1/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

210122 Fire Detection and Evacuation Panel BC016-2/INT1

The design of the Fire Detection and Evacuation Panel BC016-2/INT1 is identical with the Fire Detection Control Panel BC016-1/INT1, but includes additional 10 buttons in the display and operating field for the direct control (i.e., activation and deactivation) of a maximum of 8 evacuation circuits. With that, different country-specific requirements (e.g., NEN 2575) can be fulfilled.

The labels of the display and operating elements as well as the displayed and printer texts are in English language. Enclosed with the control panel is a documentation in English language.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 70mA (without optional componentries)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm/3.3kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	380 × 480 × 83 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 5kg
Approval	VdS G205023

Cross-references	Page	Art.No.	Name Type
	9	210110	Detector Zone Extension BC016 MGE8-1
	10	210111	Fire Brigade Interface FWI016-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	10	210112	Serial Interface Module SIM016-3
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3

336	310002	Stand-By Battery 12V/18AH

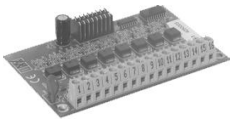
210120 Fire Detection and Evacuation Panel BC016-2/D1

The design of the Fire Detection and Evacuation Panel BC016-2/D1 is identical with the Fire Detection Control Panel BC016-1/D1, but includes additional 10 buttons in the display and operating field for the direct control (i.e., activation and deactivation) of a maximum of 8 evacuation circuits. With that, different country-specific requirements (e.g., NEN 2575) can be fulfilled.

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-2/INT1. The labels of display and operating elements, the displayed and printer texts as well as the documentation are in German language.

210110 Detector Zone Extension BC016 MGE8-1

The Detector Zone Extension MGE8-1 is used to extend a Fire Detection Control Panel Series BC016 by 8 detector zones in addressable conventional technology.



Features

- 8 detector lines in addressable conventional technology, that can be individually configured as detector zone for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- Detector lines monitored for wire breakage, short circuit and earth fault
- Freely parameterisable allocation of the detector lines for activating transmitting devices, actuations and alarming devices

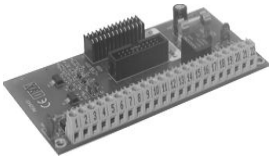
Specifications

Current consumption at 24V	typ. 32mA (8 zones terminated, without detectors)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm/3.3kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	100 × 65 × 15 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1

210111 Fire Brigade Interface FWI016-1

The Fire Brigade Interface FWI016-1 allows for the connection of two independent transmitting devices for direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country specific fire brigade control unit to Fire Detection Control Panels Series BC016.



Features

- 1 relay output with dry changeover contact
- 1 line-monitored output with selectable monitoring current
- 8 inputs and 7 outputs, freely parameterisable, for the connection of a country specific fire brigade control unit and other devices
- All inputs and outputs are available on screw terminals or flat cable connector

Specifications

Current consumption at 24V	typ. 4mA
Switching power per contact	60V/1A/30W
Contact life	3×10^5
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	130 × 65 × 15 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1

210112 Serial Interface Module SIM016-3

The Serial Interface Module SIM016-3 is used to extend a Fire Detection Control Panel Series BC016 with an INFO bus interface for the connection of fire brigade control units and intelligent remote indication units with serial data transmission.

Specifications

Current consumption at 24V	typ. 22mA
Interface	20mA current loop
Connection type	Screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1

3 Fire Detection Control Panels Series BC216

214999T Available Variants Series BC216

The term "Series BC216" combines both stand-alone control panels for small and medium-size fire detection systems and fire detection control panels that consist of a variety of networked sectional control panels for medium to very large fire detection systems.

The Fire Detection Control Panels BC216-1 and BC216-1CE are designed as compact stand-alone control panels for use in small and medium-size fire detection systems. Due to their modular structure and their free-to-set parameters they can be easily adapted to various requirements and can, therefore, be used in a wide range of applications. The control panels set new standards in operating comfort, functional variety, as well as security in the fire alarm technology, which benefit both the user and the installer of a fire detection system.

The Fire Detection Control Panel BC216-1S is a modular compact panel for small fire detection systems with a single ADM loop. It constitutes an already pre-assembled unit that contains all basic components which are required for the operation of a 1 loop fire detection control panel.

In a Fire Detection Control Panel BCnet216 individual decentrally located BCnet sectional control panels are combined in the Global Security System network GSSnet to form a virtual control panel for medium-size to very large or far-flung fire detection systems. The sectional control panels consist basically of the same components as the stand-alone control panels and consequently share the same clear modular design as well as the individual parameter setup. This makes the units clear and easy-to-handle and the required professional knowledge for planning and commissioning, thanks to the use of consistent components, remains the same for every system size. By the use of network technology, the control panel sets new standards for security in fire alarm technology and, at the same time, reduces costs due to most simple cabling work.

The following table provides you with an overview of the most important characteristics of the individual control panels, sectional control panels or control modules, respectively, of Series BC216:

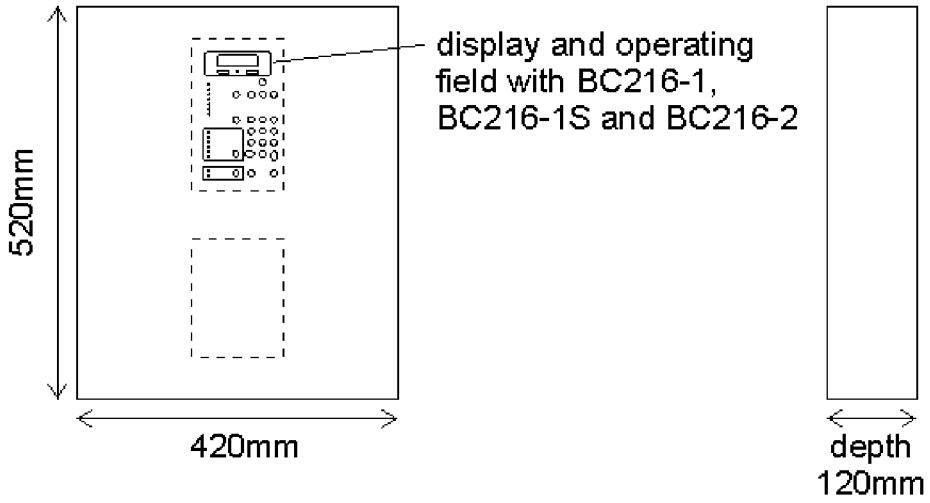
Type:	Display and operating field available	Sectional Control Panel in the GSSnet	BCnet Sectional Control Panel Extension applicable	LED-display field applicable
BC216-1	X			X
BC216-1S	X			X
BC216-2	X	X	X	X
BC216-3		X	X	
BC216-1CE	X			X
BC216-1CE + NIF5-1M	X	X		X
BC216-3CE		X		
BC216-2EPS	X	X		X
BCM216-3EPS		X		
BCM216-3E		X		
BCM216-3ELG		X		

The Global Security System network GSSnet allows for the communication of overall 127 GSSnet members (i.e., BCnet sectional control panels, control modules, etc.), which together provide the possibility to connect:

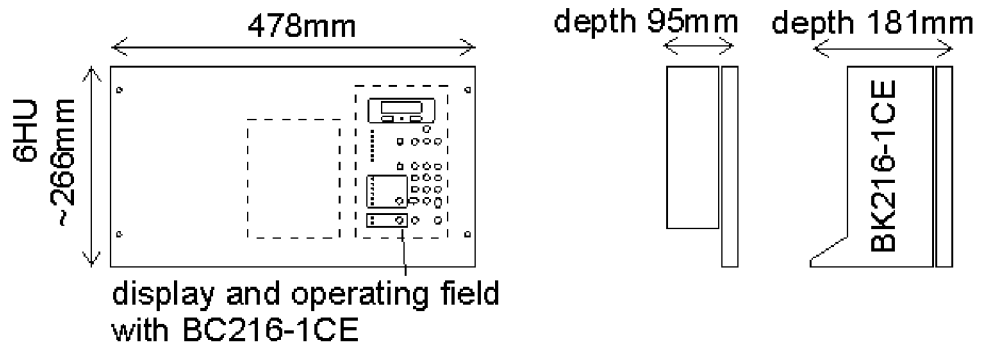
- 254 ADM loops using Labor Strauss/700 protocol, System Sensor/200 or Apollo/Discovery protocol or
  2032 detector zones in addressable conventional technology
- 9700 actuations (e.g., fire controls or extinguishing system controls)
- 99 transmitting devices (e.g., to the fire brigade)
- 999 alarming devices (e.g., zones of acoustic or optical signalling devices)

The following figure shows the available variants of panel housings.

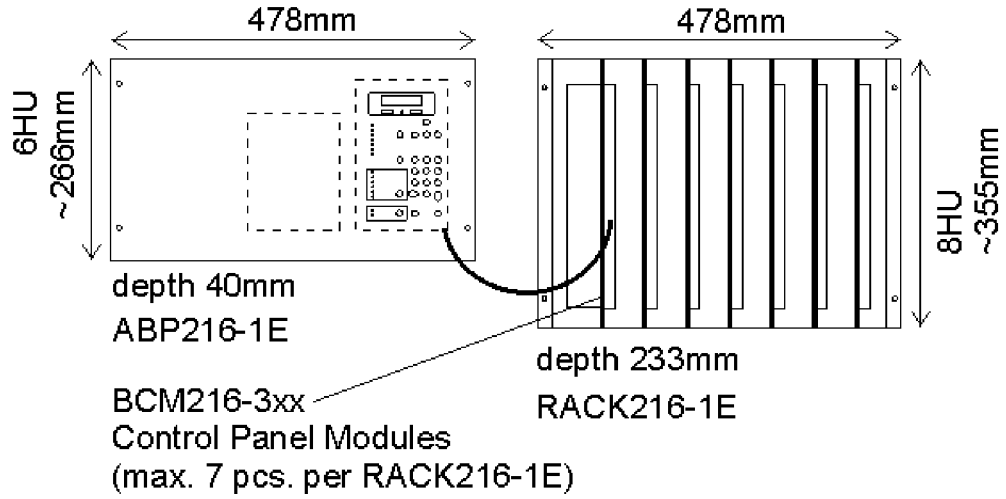
BC216-x (compact wall-mount design)



BC216-xCE (compact 19” design)



BC216-xE (19” slide-in unit design)



214008 Fire Detection Control Panel BC216-1/INT1

The Fire Detection Control Panel BC216-1/INT1 is a modularly designed compact control panel for small and medium size fire detection systems. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

If required, the Fire Detection Control Panel BC216-1 can be expanded to become an Extinguishing Control Panel LC216-1. This panel can control and monitor up to 8 flooding zones. The extensive functions and features are summarised in the description of the Extinguishing Control Panel Series LC216, Art. No. 218990T.

The control panel is installed in a wall-mount cabinet made of powder coated sheet steel and prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, an LED Display Field LAB48-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as stand-by batteries with 2 × 12V/max. 22Ah. The labels of the display and operating elements as well as the displayed and printer texts are in English language.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows Parameter Setup Software PARSOFT-1. Additionally, the parameter setup can also be realised without any further tools using the keypad of the integrated display and operating field of the control panel or by means of a commercially available PC keyboard.

Most important features

- Micro-processor technology with diverse redundant processing logic
- Administration of up to 144 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- Easy control panel operation thanks to freely parameterisable sectors
- INFO field with a 4 line by 20 character backlit text display providing information about all current events in English
- Info button for additional information on the current events
- Event memory with quick-search filter displays the latest 500 events in chronological order
- Display of activation, fault, disablement, alarm delay, call fire brigade and confirmation of the transmitting device to the fire brigade
- Monitored output for the connection of external signalling devices with display of activation, fault or disablement
- Dry contact outputs for summary alarm and summary fault
- 16 open-collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions
- „and/or“-combinations for the activation of actuations, transmitting devices or alarming devices, depending on messages from detector zones or single detectors, respectively
- Collective reset of all current alarms via “Panel reset” button
- Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes

- Alarm delay with dead-man's handle controlled by internal timer which can be set separately for each day of the week
- Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- One-man test condition
- Non-resettable electronic alarm counter
- Two integrated serial interfaces
- Integrated INFO bus for the connection of fire brigade control units and intelligent remote indication units
- Connection of a serial protocol printer via an optional data interface
- Control panel recognises all control panel components and loop elements by means of auto-setup during first commissioning
- Connection of detectors via unshielded 2-wire cabling
- Stand-by batteries 2 × 12V/max. 22Ah can be installed in the control panel's housing

Additional features and functions when operating in analogue ADM loop technology can be found in the description of the Loop Interface LIF64-1or LIF128-1.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approval	VdS G201017

Cross-references	Page	Art.No.	Name Type
	34	214020	Conventional Detector Interface GIF8-1
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

214000 Fire Detection Control Panel BC216-1/A1

The Fire Detection Control Panel BC216-1/A1 is a modularly designed compact control panel in the version for Austria, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214610 Fire Detection Control Panel BC216-1/D1

The Fire Detection Control Panel BC216-1/D1 is a modularly designed compact control panel in the version for Germany, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214092 Fire Detection Control Panel BC216-1/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC216-1 correspond to those of the Fire Detection Control Panel BC216-1/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

214006 Fire Detection Control Panel BC216-1/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.
Approval ANPI BFS/DE/1096 - 2003.03.20

214015 Fire Detection Control Panel BC216-1/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Using the optional interface (Serial Interface Module SIM216-1), the connection to the Radom transmitting system can be realised.
Approval EZU 7.105034-00/00

214007 Fire Detection Control Panel BC216-1/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.
Approval EMILABS 85/2000

214009 Fire Detection Control Panel BC216-1/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.
Approval VdS G201017

214017 Fire Detection Control Panel BC216-1/SK1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.
Approval EVPÚ 03323/101/1/2002

214049 Fire Detection Control Panel BC216-1/HR1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.

214080 Fire Detection Control Panel BC216-1/RUS1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Russian language with cyrillic characters.
Approval B. 01832

214084 Fire Detection Control Panel BC216-1/SLO1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.
Approval 02012-C-709P3

214086 Fire Detection Control Panel BC216-1/I1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Italian language.
Approval VdS G201017

214088 Fire Detection Control Panel BC216-1/PL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.
Approval CNBOP 2238/2006

214308 Fire Detection Control Panel BC216-1S/INT1

The Fire Detection Control Panel BC216-1S/INT1 is a modularly designed compact control panel for small fire detection systems with a single ADM loop (ring-bus technology). It is an already completely mounted unit, which includes all basic components that are needed for the operation of a 1-loop fire detection control panel. Fire detectors, fault detectors and condition detectors as well as control elements and alarming devices can be connected to the ADM loop. Even extensive and complex alarming and control tasks can be accomplished with the control panel due to numerous possible combinations to alarming devices and transmitting devices and combinations for actuations. The control panel complies with the European Standards EN 54-2 and EN 54-4 in all points including all options for highest safety demands.

The control panel is integrated in a wall-mount cabinet made of powder coated steel sheet and is equipped with a Loop Interface LIF64-1 by default. In addition, the control panel is prepared for accommodation of one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, one LED Display Field LAB48, a Serial Interface Module SIM216-1 and

further optional componentries as well as of stand-by batteries 2 × 12V/max. 22Ah. The mounting position for function module 2 is non-functional. The labelling of operating and display elements, display texts and text printouts come in English language.

The configuration parameters of the control panel can be quickly and reliably created on a PC by means of the Windows Parameter Setup Software PARSOFT-1 and transferred to the control panel. In addition, parameter data can be directly entered either on the control panel via the keyboard of the integrated display and operating field, or via a standard PC keyboard.

Essential features

- Micro-processor technology with diverse redundant processing logic
- Administration of up to 144 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- Easy operation of the control panel by freely parameterisable sectors
- INFO-field with 4 line by 20 character backlit text display for information on all current events
- Info-button for additional information on current events
- Event memory displays last 500 events in chronological order with setable filters
- LED indicators for activation, fault, disablement, alarm delay operation, call fire brigade and confirmation for the fire brigade transmitting device
- Monitored output for activation of external signalling devices with display of activation, fault or disablement
- One dry contact each for summary alarm and summary fault
- 16 open-collector outputs parameterisable as transmission and alarming devices, actuations or other output types
- "And/or"-combinations for activation of actuations, transmitting devices or alarming devices, in dependence from messages of detector zones or individual detectors
- Button "Panel reset" for common reset of all current events
- 3 authorisation levels for operation and parameterisation, secured by numeric codes
- Alarm delay with dead-man's handle, programmable for every day of the week by means of the internal timer
- Automatic shifting between winter- and summertime either according to EU directive or freely setable
- One-man-maintenance function
- Non-resettable electronic event counter
- Two integrated serial interfaces
- Integrated INFO bus for the connection of a fire brigade control unit and intelligent remote indication unit
- Connection of a serial protocol printer via an optional data interface
- At first commissioning, the control panel recognises all componentries and loop elements by means of AUTO-setup
- Use of unshielded 2-wire detector cabling
- Control panel case provides space for accommodating 2 × 12V/22Ah stand-by batteries

Additional features and functions when operating in analogue ADM loop technology can be found in the description of the Loop Interface LIF64-1.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 115mA (incl. LIF64-1, without detectors/modules)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approval	VdS G201017

Cross-references	Page	Art.No.	Name Type
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

214300 Fire Detection Control Panel BC216-1S/A1

The Fire Detection Control Panel BC216-1S/A1 is a modularly designed compact control panel in the version for Austria, for small size fire detection systems with a single ADM loop. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214304 Fire Detection Control Panel BC216-1S/D1

The Fire Detection Control Panel BC216-1S/D1 is a modularly designed compact control panel in the version for Germany, for small size fire detection systems with a single ADM loop. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214391 Fire Detection Control Panel BC216-1S/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC216-1S correspond to those of the Fire Detection Control Panel BC216-1S/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

214306 Fire Detection Control Panel BC216-1S/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.

Approval ANPI BFS/DE/1096 - 2003.03.20

214315 Fire Detection Control Panel BC216-1S/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Approval EZU 7.105034-00/00

214307 Fire Detection Control Panel BC216-1S/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.
Approval EMILABS 85/2000

214309 Fire Detection Control Panel BC216-1S/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.
Approval VdS G201017

214317 Fire Detection Control Panel BC216-1S/SK1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.
Approval EVPÚ 03323/101/1/2002

214349 Fire Detection Control Panel BC216-1S/HR1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.

214384 Fire Detection Control Panel BC216-1S/SLO1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.
Approval 02012-C-709P3

214388 Fire Detection Control Panel BC216-1S/PL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.
Approval CNBOP 2238/2006

219998T Fire Detection Control Panel BCnet216, Description

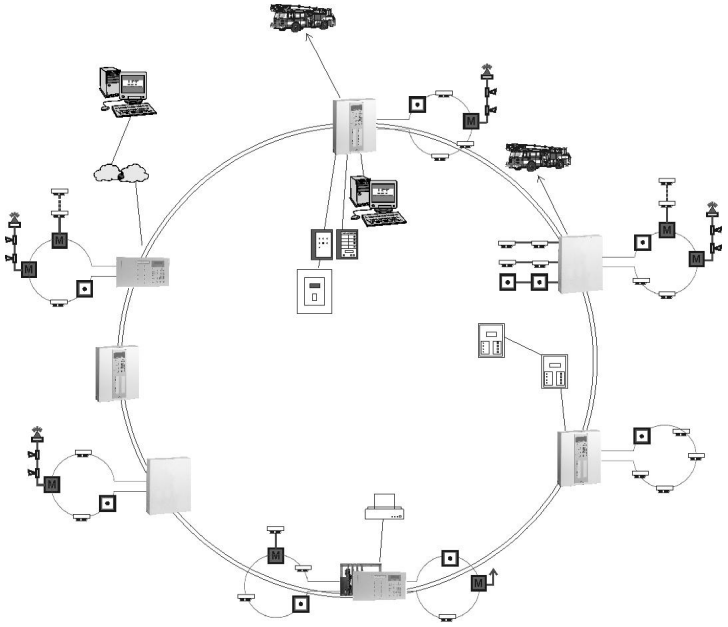
The Fire Detection Control Panel BCnet216 is a decentrally located control panel for medium-size to very large or far-flung fire detection systems and consists of individual sectional control panels. The sectional control panels are normally installed on the spot – adapted to the object and distributed across the building – they can, however, be combined at one or several locations. All sectional control panels are connected via a redundant high-security network (the Global Security System network GSSnet) and conjointly form the decentralised Fire Detection Control Panel BCnet216. The decentralised structure not only reduces the cabling work for connecting fire detectors, it, above all, significantly improves the failure safety of the entire system compared to conventionally designed fire detection control panels. The control panel can easily be adapted to any required system size and provides literally unlimited possibilities also for future extensions.

Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

The Global Security System network GSSnet allows for the communication of overall 127 GSSnet members, which together provide the possibility to connect:

- 254 ADM loops using Labor Strauss/700 protocol, System Sensor/200 or Apollo/Discovery protocol or
  2032 detector zones in addressable conventional technology
- 9700 actuations (e.g., fire controls or extinguishing system controls)
- 99 transmitting devices (e.g., to the fire brigade)
- 999 alarming devices (e.g., zones of acoustic or optical signalling devices)

The applied network technology warrants top failure safety in case of a fault of the network line and exceeds the redundancy requirements of the European Standard EN 54-2.



The following designs of control panels can be used as sectional control panels within a Network Fire Detection Control Panel BCnet216:

- BCnet sectional control panel in standard wall-mount cabinet BC216-2 (with display and operating field) or BC216-3 (without display and operating field), each of which can be expanded with a BCnet Sectional Control Panel/Extension BCE216-3LG,
- BCnet sectional control panel in compact 19" slide-in technology BC216-1CE with additionally installed Network Interface Module NIF5-1M (with display and operating field) or BC216-3CE (without display and operating field), and
- BCnet Control Panel BC216-2EPS (consisting of a 19" Control Panel Rack RACK216-1E, a fire detection control module with power unit BCM216-3EPS and a Display and Operating Front Panel ABP216-1E), which can be expanded with Fire Detection Control Modules BCM216-3EPS, BCM216-3E and BCM216-3ELG).

The administration of the entire fire detection control panel is assigned to a BCnet sectional control panel with display and operating field of your choice, which is parameterised as main operating unit and allows for the full operation of all BCnet sectional control panels in the networked control panel. This main operating unit also takes care of the setup of site-specific parameters for the entire control panel – easily and comfortably accomplished by means of PC and Windows Parameter Setup Software PARSOFT-2.

In addition to the main operating unit, additional operating units as well as Remote Display and Operating Panels ABF216-1 can be integrated into the GSSnet as remote display and operating units.

Every BCnet sectional control panel as well as the Fire Detection Control Modules BCM216-3EPS and BC216-3E are prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, a Serial Interface Module SIM216-1 as well as additional optional componentries. You can thus connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of the both. Sectional control panels with display and operating field can be equipped with LED Display Fields.

If required, the Fire Detection Control Panel BCnet216 can be expanded to become an Extinguishing Control Panel LCnet216. Each sectional control panel can control and monitor up to 8 flooding zones, the entire panel network controls a maximum of 127 flooding zones. The extensive functions and features are summarised in the description of the Extinguishing Control Panel Series LC216, Art. No. 218990T.

Most important features of each BCnet sectional control panel or fire detection control modules, respectively

- Micro-processor technology with diverse redundant processing logic
- Administration of up to 144 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property (3)
- Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- Easy control panel operation thanks to freely parameterisable sectors
- INFO field with a 4 line by 20 character backlit text display providing information about all current events (1), (2), (3)
- Info button for additional information on the current events (1), (2), (3)
- Event memory with quick-search filter displays the latest 500 events in chronological order
- Display of activation, fault, disablement, delay operation, call fire brigade and confirmation for the transmitting device to the fire brigade (1), (2), (3)
- Monitored output for the connection of external signalling devices with display of activation, fault or disablement (3)
- Dry contact outputs for summary alarm and summary fault
- 16 open-collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions (3)
- „and/or“-combinations for the activation of actuations, transmitting devices or alarming devices, depending on messages from detector zones or single detectors, respectively
- Collective reset of all current alarms via “Panel reset” button (1), (2), (3)
- Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes (1), (2), (3)
- Alarm delay with dead-man’s handle controlled by internal timer which can be set up separately for each day of the week
- Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- One-man maintenance function (1), (2), (3)
- Non-resettable electronic event counter
- One freely-usable serial interface (3)
- Integrated INFO bus for the connection of a fire brigade control unit and an intelligent remote indication unit (3)
- Connection of a serial protocol printer via optional data interface (3)
- Control panel recognises all control panel components and loop elements by means of auto-setup during first commissioning
- Connection of detectors via unshielded 2-wire cabling
- Stand-by batteries 2 × 12V/max. 22Ah can be integrated in control panel housing (only with BC216-2, BC216-3, BC216-1CE, BC216-3CE)

(1) Sectional control panels BC216-3 and BC216-3CE have no display and operating field installed, these sectional control panels are operated by and the events are displayed on an operatable sectional control panel (e.g., the main operating unit)
(2) Fire detection control modules have no display and operating field installed, these sectional control panels are operated by and the events are displayed on an operatable sectional control panel (e.g., the main operating unit) or an optionally connected Display and Operating Front Panel ABP216-1E
(3) The functions and features of the Fire Detection Control Module BCM216-3LG are restricted to the processing of 2 ADM loops, the connection of conventional detector lines is not possible, control panel functions are not supported either (please see also the detailed product description in the catalogue)

Additional features and functions when operating in analogue ADM loop technology can be found in the description of the Loop Interface LIF64-1 or LIF128-1. Note: The Fire Detection Control Module BCM216-3LG integrates 2 loop interfaces.

Specifications
See individual description of the BCnet sectional control panel and fire detection control module

Approvals:	PfBST	FT 14/147/3/99 (Austria)
	VdS	G201017
	VKF	13400/2007
	EMILABS	85/2000
	ANPI	BFS/DE/1096 - -2003.03.20
	EZU	7.105034 - 00 / 00
	EVPÜ	03323 / 101 / 1 / 2002
	ABA	S-059/01
	UNIIPO	B. 01832
	F.EL.	02012-C-709P3
	CNBOP	2238/2006

214056 BCnet Control Panel with Operat. BC216-2/INT1

The BCnet Control Panel BC216-2/INT1 with its modular design and integrated display and operating field is suitable for use in a Fire Detection Control Panel BCnet216. Fire, fault and status detectors as well as control elements and alarming devices can be connected to up to 2 ADM loops in analogue technology or to a maximum of 16 detector zones in addressable conventional technology or to a combination thereof, depending on the optional modules used.

The sectional control panel is installed in a wall-mount case made of powder coated steel sheet which is prepared for accommodating 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, one LED Display Field LAB48-x, a Serial Interface Module SIM216-1 and further optional modules as well as stand-by batteries 2 × 12V/max. 22Ah.

A summary of the extensive functions and features is provided in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T. The labels of display and operating elements as well as the displayed and printer texts are in English language.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 125mA (without optional modules)
Ambient temperature	-5°C to +50°C

Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approval	VdS G201017

Cross-references	Page	Art.No.	Name Type
	26	214034	BCnet Control Panel/Extension BCE216-3LG
	34	214020	Conventional Detector Interface GIF8-1
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	57	214027	Network Cable NWK2-1
	41	214031	Network Redundant Alarm Converter NNU5-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

214004 BCnet Control Panel with Operat. BC216-2/A1

The BCnet Control Panel BC216-2/A1 is a modularly designed sectional control panel with display and operating field in the version for Austria, for application in a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214612 BCnet Control Panel with Operat. BC216-2/D1

The BCnet Control Panel BC216-2/D1 is a modularly designed sectional control panel with display and operating field in the version for Germany, for application in a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214093 BCnet Control Panel with Operat. BC216-2/S1

The functions, specifications and cross-references of the Swedish version of the BCnet Control Panel BC216-2 correspond to those of the BCnet Control Panel BC216-2/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

214060 BCnet Control Panel with Operat. BC216-2/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.

Approval ANPI BFS/DE/1096 - 2003.03.20

214064 BCnet Control Panel with Operat. BC216-2/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Using the optional interface (Serial Interface Module SIM216-1), the connection to the Radom transmitting system can be realised.
Approval EZU 7.105034-00/00

214062 BCnet Control Panel with Operat. BC216-2/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.
Approval EMILABS 85/2000

214058 BCnet Control Panel with Operat. BC216-2/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.
Approval VdS G201017

214066 BCnet Control Panel with Operat. BC216-2/SK1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.
Approval EVPÚ 03323/101/1/2002

214079 BCnet Control Panel with Operat. BC216-2/HR1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.

214081 BCnet Control Panel with Operat. BC216-2/RUS1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Russian language with cyrillic characters.
Approval B. 01832

214085 BCnet Control Panel with Operat. BC216-2/SLO1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.
Approval 02012-C-709P3

214087 BCnet Control Panel with Operat. BC216-2/I1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Italian language.

Approval VdS G201017

214089 BCnet Control Panel with Operat. BC216-2/PL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.

Approval CNBOP 2238/2006

214005 BCnet Control Panel No Operation BC216-3

The BCnet Control Panel BC216-3 is a modularly designed sectional control panel without display and operating field ("Black Box" control panel) for application in a Fire Detection Control Panel BCnet216. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both.

The sectional control panel is installed in a wall-mount cabinet made of powder coated sheet steel and is prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as stand-by batteries with 2 × 12V/max. 22Ah.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Specifications

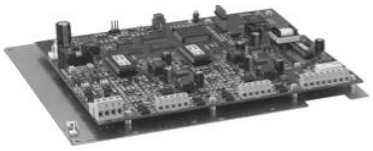
Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	26	214034	BCnet Control Panel/Extension BCE216-3LG
	34	214020	Conventional Detector Interface GIF8-1
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	57	214027	Network Cable NWK2-1
	41	214031	Network Redundant Alarm Converter NNU5-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3

336 310002 Stand-By Battery 12V/18AH

214034 BCnet Control Panel/Extension BCE216-3LG

The BCnet Control Panel/Extension BCE216-3LG allows for the extension of a Fire Detection Control Panel BCnet216 with two ADM loops for detectors and modules using System Sensor/200 or Apollo/Discovery protocols. The extension is integrated into the Fire Detection Control Panel BCnet216 by installing it in a BCnet Control Panel BC216-2 or BC216-3 and connecting it to the GSSnet wiring via the GSSnet interface on the extension.



The 24V supply of the BCnet Control Panel/Extension BCE216-3LG is shared with the BCnet sectional control panel in whose cabinet it has been installed; it does not have a power supply or battery charger of its own. The extension is designed as compact unit and mounted on a pivoting sheet steel carrier.

The loop processing functions of the BCE216-3LG fully correspond to the functions of a BCnet Control Panel BC216-2 equipped with 2 Loop Interfaces LIF64-1, with the limitation that, apart from the BCnet redundant alarm function, no additional control panel functions are supported.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Features

- Per ADM loop a maximum of 144 detector zones in ADM technology for the connection of manual call points, automatic detectors, conventional zone modules, control modules and signalling devices.
- ADM loop wiring is realised as ring, branch or any given combination of sectional rings and branches using unschielded cables.
- Two isolator modules at the beginning and the end of every ADM loop are integrated on the componentry
- Connection of 318 physical address points (159 detectors and 159 modules) per ADM loop using System Sensor/200 protocol
  Note: For the administration of 318 address points, **version V1.06 or higher** of the firmware **PL148** is required.
- Connection of 126 physical address points (detectors or modules) per ADM loop using Apollo/Discovery protocol
- Every physical address is assigned an organisational address (individual detector identification)
- Free assignment of detector zones or individual detectors for the activation of transmitting devices, actuations or alarming devices
- Maintenance prognosis for every single connected smoke detector
- Full function of all loop elements in case of wire breakage on the ADM loop line
- At short circuit, all elements not affected are fully operable thanks to the installed isolator modules
- In addition to the main processor, an independent CMOS processor per ADM loop is installed to ensure the alarming capability even at system failure
- Transmission of an alarm via BCnet redundant alarm line even in case of multiple line faults in the GSSnet or at system failure of the BCnet sectional control panel

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	140mA (without detectors)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core

Ambient temperature	-5°C to +50°C
Dimensions W × H × D	248 × 222 × 28 (mm)
Weight	approx. 675g

Cross-references	Page	Art.No.	Name Type
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	58	214025	Serial Interface Module SIM216-1

214108 Fire Detection Control Panel 19" BC216-1CE/INT1

The Fire Detection Control Panel BC216-1CE/INT1 is a modularly designed compact control panel in 19" slide-in technology for small and medium size fire detection systems. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

The control panel is designed as 19" slide-in unit with a height of 6 rack units to be mounted in an optional 19" cabinet. The slide-in unit is prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, an LED Display Field LAB48-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as stand-by batteries with 2 × 12V/max. 22Ah. The labels of display and operating elements as well as the displayed and printer texts are in English language.

The extensive functions and features correspond to the full extent to the Fire Detection Control Panel BC216-1/INT1, Art. No. 214008.

By installing a Network Interface Module NIF5-1M in the Fire Detection Control Panel BC216-1CE, the latter can be integrated as BCnet sectional control panel with display and operating field into a Fire Detection Control Panel BCnet216. For further information please refer to the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 rack units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approval	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	43	214128	Battery Bracket BK216-1CE
	34	214020	Conventional Detector Interface GIF8-1

50	218024	Exting. Control/8-Area Licence LC216-8LB
38	214023	Fire Brigade I/F Additional Board FWZ2-1
37	214022	Fire Brigade Interface FWI2-1
38	214024	LED Display Field LAB48-1
39	214030	LED Display Field LAB48-2
39	214032	LED Display Field LAB48-3
40	214036	LED Display Field LAB48-4
36	214037	Loop Interface LIF128-1
34	214021	Loop Interface LIF64-1
57	214033	Network Interface Module NIF5-1M
70	222010	Relay Module 4-Fold/230VAC RL58-2
70	222004	Relay Module 8-Fold/60VDC RL58-1
58	214025	Serial Interface Module SIM216-1
68	223026	Siren Connection Module SZ58-3
336	310002	Stand-By Battery 12V/18AH

214100 Fire Detection Control Panel 19" BC216-1CE/A1

The Fire Detection Control Panel BC216-1CE/A1 is a modularly designed compact control panel in 19" slide-in technology in the version for Austria, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214611 Fire Detection Control Panel 19" BC216-1CE/D1

The Fire Detection Control Panel BC216-1CE/D1 is a modularly designed compact control panel in 19" slide-in technology in the version for Germany, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214112 Fire Detection Control Panel 19" BC216-1CE/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC216-1CE correspond to those of the Fire Detection Control Panel BC216-1CE/INT1.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

214158 Fire Detection Control Panel 19" BC216-1CE/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language. A User Manual in English is included in the delivery.

Approval VdS G201017

214164 Fire Detection Control Panel 19" BC216-1CE/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language. A User Manual in English is included in the delivery.

Approval EZU 7.105034-00/00

214109 Fire Detection Control Panel 19" BC216-1CE/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language. A User Manual in English is included in the delivery.

Approval EMILABS 85/2000

214105 BCnet Control Panel No Operat.19" BC216-3CE

The BCnet Control Panel BC216-3CE is a modularly designed sectional control panel in 19" slide-in technology without display and operating field ("Black Box" control panel) for application in a Fire Detection Control Panel BCnet216. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both.

The sectional control panel is designed as 19" slide-in unit with a height of 6 rack units to be mounted in an optional 19" cabinet. The slide-in unit is prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as a Battery Bracket BK216-1CE for the installation of stand-by batteries with 2 × 12V/max. 22Ah.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

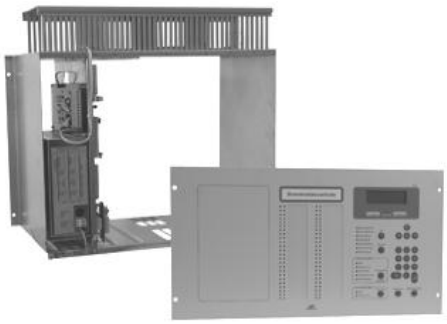
Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 rack units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	43	214128	Battery Bracket BK216-1CE
	34	214020	Conventional Detector Interface GIF8-1
	46	214129	Decoration Foil For BC216-3CE FF216-3CE
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	57	214027	Network Cable NWK2-1
	41	214031	Network Redundant Alarm Converter NNU5-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	58	214025	Serial Interface Module SIM216-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

214997T BCnet Sectional Control Panel/OP. BC216-2EPS

The BCnet Control Panel BC216-2EPS is the basic set of a Fire Detection Control Panel BCnet216 in 19" slide-in unit design. It consists of



- One Control Panel Rack/8HU RACK216-1E
- One Fire Detection Control Module/PS BCM216-3EPS and
- One Display and Operating Front Panel ABP216-1E.

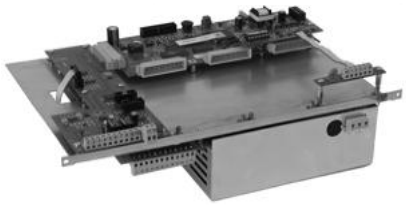
This basic unit provides space for up to 6 additional BCnet sectional control panels (Fire Detection Control Modules BCM216-3E or BCM216-3ELG), which are supplied by the power unit of the module BCM216-3EPS. If the power does not suffice to supply all sectional control panels, you can install an additional module BCM216-3EPS instead of 2 modules BCM216-3E or BCM216-3ELG.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T, as well as in the description of the individual components.

Cross-references	Page	Art.No.	Name Type
	44	214230	Control Panel Rack/8HU RACK216-1E
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	32	214234	Fire Detection Control Module/LG BCM216-3ELG
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	19	219998T	Fire Detection Control Panel BCnet216, Description
	57	214027	Network Cable NWK2-1

214204 Fire Detection Control Module/PS BCM216-3EPS

The Fire Detection Control Module/PS BCM216-3EPS is a BCnet sectional control panel in slide-in unit design with a powerful power supply but without display and operating field. It is mounted on a sheet steel carrier and designed for use in a Control Panel Rack/8HU RACK216-1E.



The module is prepared for 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1 and an Interface Adapter Module IAM216-1E.

By connecting a Display And Operating Front Panel ABP216-1E to the Fire Detection Control Module/PS BCM216-3EPS, the BCnet sectional control panel can be operated directly.

The power supply unit of the fire detection control module meets all requirements of the European Standard EN 54-4 and is designed to supply additional fire detection control modules installed in the RACK216-1E, to provide power supply for the connected external devices of the fire detection system, and to charge an optional stand-by battery. If several BCM216-3EPS are used in a fire detection control panel, they must be used independently from each other and with separate stand-by batteries.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Specifications

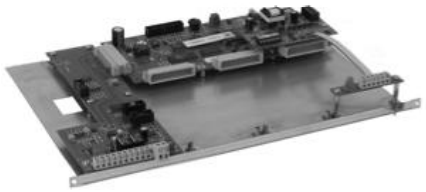
Mains voltage	230VAC +10/-20%, 47...63Hz

Connection power	300VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 8.4A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 104 (mm)
Weight	approx. 2.8kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	44	214230	Control Panel Rack/8HU RACK216-1E
	34	214020	Conventional Detector Interface GIF8-1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	58	214231	Interface Adapter Module IAM216-1E
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	57	214027	Network Cable NWK2-1
	41	214031	Network Redundant Alarm Converter NNU5-1
	338	310005	Stand-By Battery 12V/65AH

214205 Fire Detection Control Module BCM216-3E

The Fire Detection Control Module BCM216-3E is a BCnet sectional control panel in slide-in unit design without power supply and without display and operating field. It is mounted on a sheet steel carrier and designed for use in a Control Panel Rack/8HU RACK216-1E.



The slide-in unit is prepared for a maximum of 2 function modules (Conventional Detector Interface GIF8-1, Loop Interface LIF64-1 or LIF128-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1 and an Interface Adapter Module IAM216-1E.

By connecting a Display and Operating Front Panel ABP216-1E to the Fire Detection Control Module BCM216-3E, the BCnet sectional control panel can be operated directly.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Specifications

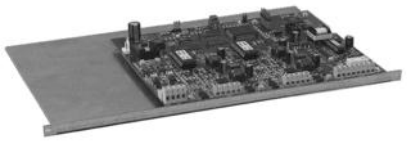
Supply voltage	21 to 30VDC
Current consumption at 24V	typ. 80mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 42 (mm)
Weight	approx. 0.9kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	44	214230	Control Panel Rack/8HU RACK216-1E
	34	214020	Conventional Detector Interface GIF8-1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	50	218024	Exting. Control/8-Area Licence LC216-8LB
	38	214023	Fire Brigade I/F Additional Board FWZ2-1
	37	214022	Fire Brigade Interface FWI2-1
	19	219998T	Fire Detection Control Panel BCnet216, Description
	58	214231	Interface Adapter Module IAM216-1E
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	57	214027	Network Cable NWK2-1

41 214031 Network Redundant Alarm Converter NNU5-1

214234 Fire Detection Control Module/LG BCM216-3ELG

The Fire Detection Control Module/LG BCM216-3ELG allows for the extension of a Fire Detection Control Panel BCnet216 with two ADM loops for detectors and modules using System Sensor/200 or Apollo/Discovery protocols. The module is mounted as slide-in unit on a sheet steel carrier and is used in a Control Panel Rack/8HU RACK216-1E. It is integrated into the BCnet216 by connecting it to the GSSnet wiring via the GSSnet interface on the module.



The loop processing functions of the Fire Detection Control Module BCM216-3ELG fully correspond to the functions of a BCnet Control Panel BCM216-3E equipped with 2 Loop Interfaces LIF64-1, with the limitation that apart from the BCnet redundant alarm function no additional control panel functions are supported.

Features

- A maximum of 144 detector zones for the connection of manual call points, automatic detectors, conventional modules, control modules and signalling devices.
- ADM loop wiring is realised as ring, branch or any given combination of sectional rings and branches using unshielded cables.
- Two isolator modules at the beginning and the end of every ADM loop are integrated on the componentry
- Connection of 318 physical address points (159 detectors and 159 modules) per ADM loop using System Sensor/200 protocol
  Note: For the administration of 318 address points, **version V1.06 or higher** of the firmware **PL148** is required.
- Connection of 126 physical address points (detectors or modules) per loop using Apollo/Discovery protocol
- Every physical address is assigned an organisational address (individual detector identification)
- Free assignment of detector zones or individual detectors for the activation of transmitting devices, actuations or alarming devices
- Maintenance prognosis for every single connected smoke detector
- Full function of all connected elements in case of wire breakage on the ADM loop line
- At short circuit, all elements not affected are fully operable thanks to the installed isolator modules
- In addition to the main processor, an independent CMOS processor per ADM loop is installed to ensure the alarming capability even at system failure

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	140mA (without detectors/modules)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 30 (mm)
Weight	approx. 1kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.No.	Name Type
	44	214230	Control Panel Rack/8HU RACK216-1E
	19	219998T	Fire Detection Control Panel BCnet216, Description
	58	214231	Interface Adapter Module IAM216-1E

57	214027	Network Cable NWK2-1	

214208 Display And Operating Front Panel ABP216-1E/INT1

The Display And Operating Front Panel ABP216-1E/INT1 is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control modules. It contains all standard display and operating elements of a Fire Detection Control Panel Series BC216, can be equipped with an LED Display Field LAB48-x, and is designed as 19" front panel of 6 rack units. The labels of display and operating elements are in English language.

The Display And Operating Front Panel ABP216-E/INT1 is connected to a Fire Detection Control Module BCM216-3EPS or BCM216-3E with a special cable with a length of 1.5m. Note: The ABP216-1E/INT1 must be installed in the same housing with the device that controls it; the original connection cable must not be extended.

Specifications

Current consumption at 24V	typ. 35mA
Connection cable	1.5m
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 rack units) × 40 (mm)
Weight	approx. 2kg
Approval	VdS G201017

Cross-references	Page	Art.No.	Name Type
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4

214200 Display And Operating Front Panel ABP216-1E/A1

The Display And Operating Front Panel ABP216-1E/A1 in the version for Austria is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control modules. Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in German language.

Approvals FT 14/147/3/99 (Austria), VdS G201017

214201 Display And Operating Front Panel ABP216-1E/D1

The Display and Operating Front Panel ABP216-1E/D1 in the version for Germany is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control modules. Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in German language.

Approval VdS G201017

214209 Display And Operating Front Panel ABP216-1E/NL1

Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in Dutch language.

Approval VdS G201017

214020 Conventional Detector Interface GIF8-1

The Conventional Detector Interface GIF8-1 supports 8 detector zones in addressable conventional technology in Fire Detection Control Panels Series BC216.

Features

- 8 detector lines in addressable conventional technology, that can be individually configured as: detector zone for fire alarm for the connection of manual call points as well as automatic detectors with or without alarm verification, detector zone for technical messages for the connection of surveillance and status detectors, detector zone for fault messages for the connection of fault detectors and detector zone for special functions (e.g., for control commands)
- Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- Detector lines monitored for wire breakage, short circuit and earth fault
- Freely parameterisable allocation of the detector lines for activating transmitting devices, actuations and alarming devices
- Independent CMOS processor to ensure the alarming capability even at system failure of the control panel

Specifications

Current consumption at 24V	typ. 50mA (8 zones terminated, without detectors)
Line voltage	typ. 20.0V
Line current	typ. 3.7mA
End-of-line resistance	5.6kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 13 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1

214021 Loop Interface LIF64-1

The Loop Interface LIF64-1 supports one ADM loop with bi-directional communication in Fire Detection Control Panels Series BC216. The protocol for the loop communication is set through the parameterisation of the control panel. Up to 318 address points (159 detectors and 159 modules) with System Sensor/200 protocoll or up to 126 address points (detectors or modules) with Apollo/Discovery protocol can be connected to the ADM loop. Each ADM loop can be divided into a maximum of 144 detector zones.

Note: For the administration of 318 address points with System Sensor/200 protocol, **version V1.06 or higher of the firmware PL148** is required.

Features

- Connection of manual call points, automatic detectors, conventional zone modules, control modules, monitor modules, RF gateways and signalling devices in ADM technology
- Usually, the wiring of the ADM loop is realised as ring with unshielded 2-wire cables; if necessary, branch lines can also be connected to the ring
- Full function of all elements in the event of a single wire breakage on the ring-shaped ADM loop line
- On the componentry, the start and the end of the ADM loop are each provided with an isolator module
- In the event of a short circuit, the loop elements which the isolators disconnect from the faulty loop section, remain fully functional
- Independent CMOS processor to ensure the alarming capability even at system failure of the control panel

Additional features and functions of the ADM loop technology:

- **ADM alarm threshold tracing** for every single smoke detector on the ADM loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
- **ADM alarm logic** analyses the measured values above alarm threshold (comparison of fire patterns) to increase immunity against deceptive alarms.
- **ADM multi alarm logic** increases the effect of the standard alarm logic by making use of the broad variety of freely parameterisable 2-detector or multi-detector interdependencies.
- **ADM individual detector identification** by assigning each physical address of an element on the ADM loop a logical address (that consists of a zone number and element number).
- 2-line **ADM detector text** can be assigned to every logical address on the ADM loop.
- **Individual ADM detector disablement** for every single element on the ADM loop or for predefined groups of elements.
- **ADM maintenance prognosis** by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the ADM loop. This way it is possible to predict the next maintenance date with a high degree of probability which in turn results in major cost savings in maintenance during the lifetime of the fire detection system.
- **ADM detector test** checks the alarming capability of every ADM detector from the fire detection control panel.
- **ADM actuations** on the ADM loop by means of actuation elements as well as alarm sirens, which are freely parameterisable and are controlled individually by the control panel.
- **ADM address setting** is carried through separately at each loop element.
- **ADM flexibility** provides for the possibility to connect conventional detectors and special detectors via a conventional zone module.

Specifications

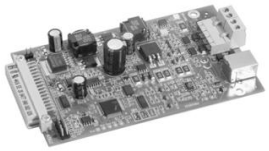
Current consumption at 24V	typ. 25mA (without detectors, modules)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 16 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1

13	214008	Fire Detection Control Panel BC216-1/INT1
137	249003	Isolator Module/500/200 ISM1-2
174	249029	Isolator Module/XP95/Disc ISM1-3

214037 Loop Interface LIF128-1

The Loop Interface LIF128-1 supports one ADM loop with bi-directional communication in Fire Detection Control Panels Series BC216. The protocol for the loop communication is set through the parameterisation of the control panel and it determines the maximum number of detectors and modules that can be connected to the loop:



- 240 physical address points (detectors or modules) with Labor Strauss/700 protocol
- 318 physical address points (159 detectors and 159 modules) with System Sensor/200 protocol
- 126 physical address points (detectors or modules) with Apollo/Discovery protocol

Each ADM loop can be divided into a maximum of 144 detector zones. Thanks to the high maximum output current of 500mA, a large number of loop elements with higher current demand – such as sirens – can be used on the ADM loop.

Extensive measuring functions for obtaining electrical characteristics, as well as analysis functions are integrated into the loop interface. On the LC display of the Fire Detection Control Panel Series BC216, the resistances of the positive and negative loop line, the present loop current, the loop voltage at all terminals and the number of faulty queries on the loop can be indicated. With that, the quality of the loop cabling and of the data transfer can be evaluated in the course of commissioning or maintenance. In this way, for example, lines that are too long or poor wiring can be detected easily.

Features

- Connection of manual call points, automatic detectors, conventional zone modules, control modules, monitor modules, RF gateways and signalling devices in ADM technology
- Usually, the wiring of the ADM loop is realised as ring with unshielded 2-wire cables; if necessary, branch lines can also be connected to the ring
- Full function of all elements in the event of a single wire breakage on the ring-shaped ADM loop line
- On the componentry, the start and the end of the ADM loop are each provided with an isolator module
- In the event of a short circuit, the loop elements which the isolators disconnect from the faulty loop section, remain fully functional
- Independent CMOS processor to ensure the alarming capability even at system failure of the control panel

Additional features and functions of the ADM loop technology:

- **ADM alarm threshold tracing** for every single smoke detector on the ADM loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
- **ADM alarm logic** analyses the measured values above alarm threshold (comparison of fire patterns) to increase immunity against deceptive alarms.
- **ADM multi alarm logic** increases the effect of the standard alarm logic by making use of the broad variety of freely parameterisable 2-detector or multi-detector interdependencies.
- **ADM individual detector identification** by assigning each physical address of an element on the ADM loop a logical address (that consists of a zone number and element number).
- 2-line **ADM detector text** can be assigned to every logical address on the ADM loop.
- **Individual ADM detector disablement** for every single element on the ADM loop or for predefined groups of elements.
- **ADM maintenance prognosis** by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the ADM loop. This way it is possible to predict the next maintenance date with a high degree of

probability which in turn results in major cost savings in maintenance during the life-time of the fire detection system.

- **ADM detector test** checks the alarming capability of every ADM detector from the fire detection control panel.
- **ADM actuations** on the ADM loop by means of actuation elements as well as alarm sirens, which are freely parameterisable and are controlled individually by the control panel.
- **ADM address setting** is carried through separately at each loop element.
- **ADM flexibility** provides for the possibility to connect conventional detectors and special detectors via a conventional zone module.

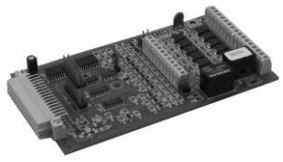
Specifications

Current consumption at 24V	typ. 25mA (without detectors/modules)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 500mA (at reduced line resistance)
Idle loop voltage	typ. 29V (Labor Strauss/700) or typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 23 (mm)
Weight	80g
Approval	VdS, pending

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	137	249003	Isolator Module/500/200 ISM1-2
	174	249029	Isolator Module/XP95/Disc ISM1-3

214022 Fire Brigade Interface FWI2-1

By means of dry contacts, the Fire Brigade Interface FWI2-1 allows for the connection of two independent transmitting devices for the direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country specific fire brigade control unit to Fire Detection Control Panels Series BC216.



Features

- Two independent relays with one dry changeover contact each
- Nine inputs and eight outputs, freely parameterisable, for the connection of a country specific fire brigade control unit and other devices
- All inputs and outputs are available on screw terminals

Specifications

Current consumption at 24V	typ. 4mA
Switching power per contact	60V/1A/30W
Contact life	3×10^5
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 23 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	38	214023	Fire Brigade I/F Additional Board FWZ2-1

30	214204	Fire Detection Control Module/PS BCM216-3EPS
31	214205	Fire Detection Control Module BCM216-3E
27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
13	214008	Fire Detection Control Panel BC216-1/INT1
16	214308	Fire Detection Control Panel BC216-1S/INT1

214023 Fire Brigade I/F Additional Board FWZ2-1

The Fire Brigade Interface Additional Board FWZ2-1 that is attached to the Fire Brigade Interface FWI2-1 allows for the connection of two independent line-monitored transmitting devices for the direct interconnection to a designated alarm respondent (e.g., fire brigade).

Features

- Two independent line-monitored outputs, that functionally correspond to the relay outputs of the Fire Brigade Interface FWI2-1
- 3 different levels of monitoring current can be set

Specifications

Current consumption at 24V	typ. 4mA (both outputs not connected) max. 28mA (both outputs connected)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	117 × 74 × 13 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	37	214022	Fire Brigade Interface FWI2-1

214024 LED Display Field LAB48-1

The LED Display Field LAB48-1 contains 48 freely parameterisable double LEDs (red/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.

In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- 48 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- Display of activation as well as deactivation or fault condition of the parameterised event
- Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA without active LED, +0.25mA per LED
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1

27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
13	214008	Fire Detection Control Panel BC216-1/INT1
16	214308	Fire Detection Control Panel BC216-1S/INT1
80	252010	LED Display Tableau LAT288-1
80	252011	LED Display Tableau LAT288-1CE
81	252012	Remote Tableau Drive Unit PTU288-1

214030 LED Display Field LAB48-2

The LED Display Field LAB48-2 contains 48 freely parameterisable double LEDs (yellow/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.

In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- 48 double LEDs (left and right hand side yellow), freely parameterisable according to individual events
- Display of activation as well as deactivation or fault condition of the parameterised event
- Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA without active LED, +0.25mA per LED
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	80	252010	LED Display Tableau LAT288-1
	80	252011	LED Display Tableau LAT288-1CE
	81	252012	Remote Tableau Drive Unit PTU288-1

214032 LED Display Field LAB48-3

The LED Display Field LAB48-3 contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs yellow/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.

In addition, the LED display field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features
- 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- 24 double LEDs (yellow), freely parameterisable according to individual events
- Display of activation as well as deactivation or fault condition of the parameterised event
- Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA without active LED, +0.25mA per LED
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	80	252010	LED Display Tableau LAT288-1
	80	252011	LED Display Tableau LAT288-1CE
	81	252012	Remote Tableau Drive Unit PTU288-1

214036 LED Display Field LAB48-4

The LED Display Field LAB48-4 contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs green/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.

In addition, the LED display field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features
- 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- 24 double LEDs (left hand side green, right hand side yellow), freely parameterisable according to individual events
- Display of activation as well as deactivation or fault condition of the parameterised event
- Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA without active LED, +0.25mA per LED
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	80	252010	LED Display Tableau LAT288-1
	80	252011	LED Display Tableau LAT288-1CE

81 252012 Remote Tableau Drive Unit PTU288-1

214031 Network Redundant Alarm Converter NNU5-1

The Network Redundant Alarm Converter NNU5-1 analyses the data on the BCnet redundant alarm line which runs in addition to the GSSnet line, and transmits an alarm message to the designated transmitting and alarming device even at multiple line failure in the GSSnet or at system failure of a BCnet sectional control panel (redundant alarm). The NNU5-1 is installed in the BCnet sectional control panel that is connected to the transmitting device to the fire brigade.

Features

- Meets the requirements of ÖNORM F3000 concerning redundancy
- Line-monitored BCnet circular redundant alarm line
- Monitors up to 126 BCnet members of a decentralised Fire Detection Control Panel BCnet216

Specifications

Current consumption at 24V	typ. 8mA (quiescent condition)
BCnet redundant alarm line	2-core circular line
Line resistance	max. 1kOhm
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	75 × 40 × 15 (mm)
Weight	20g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E

214003 Auxiliary Housing For BC216 GEH216-4

The wall-mount cabinet made of powder coated sheet steel is used for the housing of stand-by batteries and/or auxiliary modules as supplement to Fire Detection Control Panels Series BC216 in standard wall-mount cabinets.

The cabinet is prepared for the installation of

- Two stand-by batteries 12V/max. 22Ah (at the cabinet bottom) and 4 Mounting Brackets BW216-1 for auxiliary modules, or
- Four stand-by batteries 12V/max. 22Ah (two batteries at the cabinet bottom, two batteries in an optional Battery Bracket BK216-1) and a Mounting Bracket BW216-1 for auxiliary modules.

Specifications

Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Net weight	6.5kg

Cross-references	Page	Art.No.	Name Type
	42	214028	Battery Bracket BK216-1
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	43	214029	Mounting Bracket BW216-1
	336	310002	Stand-By Battery 12V/18AH

214130 Terminal Set/CE AKS216-1

The terminal set is used in a 19" cabinet with a Fire Detection Control Panel BC216-xCE and allows for the relocation of the terminals between fire detection control panel and the outbound lines. It includes terminals for the 230VAC supply and the power unit outputs as well as a pre-assembled cable harness of 1.7m length.

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1

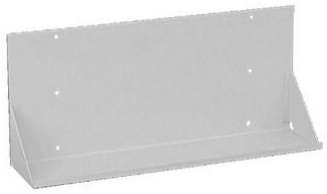
214232 Terminal Set/E AKS216-2

The terminal set is used in a 19" cabinet with a Fire Detection Control Panel BC216-2EPS and allows for the relocation of the terminals between fire detection control panel and the outgoing lines. It includes terminals for the 230VAC supply and the power unit outputs and the outputs of the first fire detection control module as well as a pre-assembled cable harness of 1.7m length.

Cross-references	Page	Art.No.	Name Type
	30	214997T	BCnet Sectional Control Panel/OP. BC216-2EPS

214028 Battery Bracket BK216-1

The Battery Bracket BK216-1 allows for the installation of 2 stand-by batteries 12V/max. 22Ah in the Auxiliary Case GEH216-4.



Specifications

Dimensions W × H × D	380 × 175 × 90 (mm)
Material	powder coated sheet steel
Colour	grey white, RAL 9002
Weight	approx. 900g

Cross-references	Page	Art.No.	Name Type
	41	214003	Auxiliary Housing For BC216 GEH216-4
	336	310002	Stand-By Battery 12V/18AH

214128 Battery Bracket BK216-1CE

The Battery Bracket BK216-1CE allows for the installation of 2 stand-by batteries 12V/max. 22Ah and auxiliary modules (e.g., 2 Relay Modules RL58-1 or RL58-2, or 2 Siren Connection Modules SZ58-3) at the back side of the Fire Detection Control Panels BC216-1CE and BC216-3CE.

Specifications

Dimensions W × H × D	437 × 175 × 90 (mm)
Complete Control Panel BC216-xCE with battery bracket:	
Dimensions W × H × D	478 × 266 × 181 (mm)
Material	zinc coated sheet steel
Weight	approx. 950g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	68	223026	Siren Connection Module SZ58-3
	336	310002	Stand-By Battery 12V/18AH

214029 Mounting Bracket BW216-1

The Mounting Bracket BW216-1 is made of zinc coated sheet steel and provides mounting holes in LST standard grid. It allows for easy mounting of auxiliary modules (e.g., 4 Relay Modules RL58-1 or RL58-2, or 4 Siren Connection Modules SZ58-3) in the Auxiliary Case GEH216-4.

Specifications

Dimensions W × H × D	380 × 20 × 100 (mm)
Net weight	340g

Cross-references	Page	Art.No.	Name Type
	41	214003	Auxiliary Housing For BC216 GEH216-4
	135	249095	Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	68	223026	Siren Connection Module SZ58-3

214230 Control Panel Rack/8HU RACK216-1E

The Control Panel Rack RACK216-1E serves as a mounting frame and allows for the installation of a maximum of

- 7 Fire Detection Control Modules BCM216-3E or BCM216-3ELG, or
- 1 Fire Detection Control Module with power supply BCM216-3EPS and 6 Fire Detection Control Modules BCM216-3E or BCM216-3ELG, or
- 2 Fire Detection Control Modules with power supply BCM216-3EPS and 4 Fire Detection Control Modules BCM216-3E or BCM216-3ELG.

The rack is normally installed on the back plate of a 19" wall-mount cabinet or 19" floor type cabinet; the modules are wired in the enclosed cable channel.

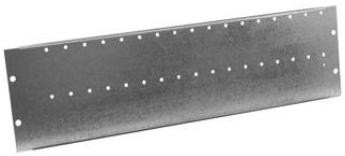
Specifications

Dimensions W × H × D	478 × 355 × 244 (mm) incl. cable channel: H = approx. 400mm
Material	zinc coated sheet steel
Weight	approx. 4.4kg

Cross-references	Page	Art.No.	Name Type
	32	214234	Fire Detection Control Module/LG BCM216-3ELG
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E

212034 Module Carrier 19"/3HU MPL17/3

The 19" mounting plate with a height of 3 rack units is used for 19" cabinets and provides mounting holes in standardised LST grid for the mounting of auxiliary modules. The module carrier can hold, for instance, 17 Isolator Modules ISM1-x, 4 Relay Modules RL58-1 or RL58-2, 4 Siren Connection Modules SZ58-2 or SZ58-3, or 2 Multi Modules MEA244-1/E, respectively.



Specifications

Dimensions W × H × D	478 × 133 (3 rack units) × 10 (mm)
Material	zinc coated steel sheet
Weight	approx. 400g

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	137	249003	Isolator Module/500/200 ISM1-2
	174	249029	Isolator Module/XP95/Disc ISM1-3
	135	249095	Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	68	223026	Siren Connection Module SZ58-3

212030 Dummy Cover 19"/2HU AD8C-2H

The powder coated 19" front panel with a height of 2 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications

Dimensions W × H × D	478 × 89 (2 rack units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 350g

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18

212029 Dummy Cover 19"/3HU AD8C-3H

The powder coated 19" front panel with a height of 3 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.

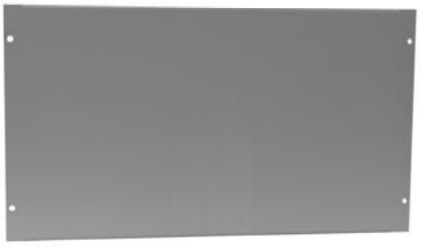
Specifications

Dimensions W × H × D	478 × 133 (3 rack units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 500g

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18

212033 Dummy Cover 19"/6HU AD8C-6H

The powder coated 19" front panel with a height of 6 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.



Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 15 (mm)
Mounting thickn. of front panel	3mm
Colour	grey white, RAL 9002
Weight	approx. 800g

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	46	214129	Decoration Foil For BC216-3CE FF216-3CE

214129 Decoration Foil For BC216-3CE FF216-3CE

The self-adhesive foil is used to adjust the colour of the BC216-3CE control panel front (by default in grey white RAL 9002) to the front foil of the BC216-1CE (light grey RAL 7035).

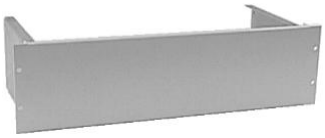
Specifications

Dimensions W × H × D	478 × 266 × 1 (mm)
Colour	light grey, RAL 7035
Weight	approx. 30g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	45	212033	Dummy Cover 19"/6HU AD8C-6H

212031 Mounting Kit 19"/3HU EW8C-E

The sheet steel mounting kit is designed as 19" slide-in unit with a height of 3 rack units. It allows for the assembly of stand-by batteries (2 × 12V/max. 45Ah or 1 × 12V/65Ah).



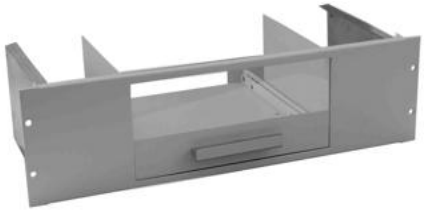
Specifications

Dimensions W × H × D	478 × 133 (3 rack units) × 200 (mm)
Mounting thickn. of front panel	3mm
Colour (frontal view)	grey white, RAL 9002
Weight	2kg

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	337	310004	Stand-By Battery 12V/45AH
	338	310005	Stand-By Battery 12V/65AH

227009 Kit 19"/3HU for Printer DPU414 DPU2-1E

The mounting kit allows for the quick and easy mounting of a Protocol Printer DPU414 into a control panel that is integrated in a 19" cabinet. The mounting kit is designed as a 19" slide-in unit with 3 rack units and it includes a drawer to accommodate the Protocol Printer DPU414. The slide-in unit also provides space for the appropriate AC adapter PW4007-E1.



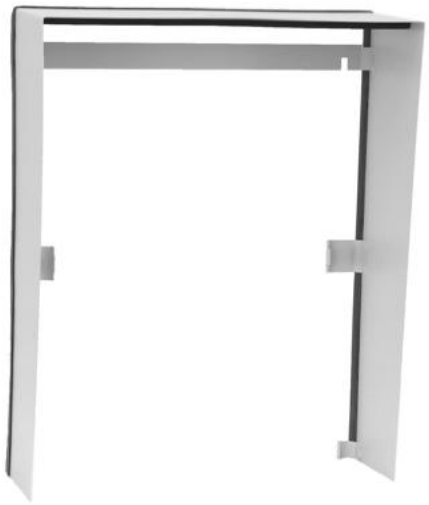
Specifications

Dimensions W × H × D	478 × 133 × 200 (mm)
Colour (front view)	grey white, RAL 9002
Weight	2kg

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	72	227003	Protocol Printer/Thermal DPU414-30B

214601 Cover IP54 For BC216 GEH-IP54-BC-1/D1

The cover is made of powder coated sheet steel and is used for increasing the protection class of Fire Detection Control Panels BC216-1, BC216-1S, BC216-2 and BC216-3 to IP54.



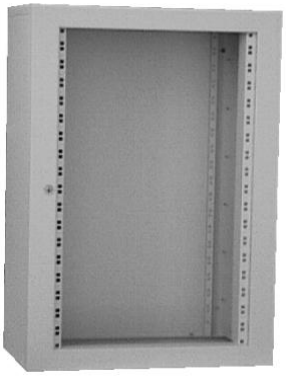
Specifications

Dimensions W × H × D	430 × 540 × 165 (mm)
Material	powder coated sheet steel 1.5mm
Colour	grey white, RAL 9002
Weight	approx. 3.1kg

Cross-references	Page	Art.No.	Name Type
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1

212027 Cabinet 19"/18HU GEH19/18

The 19" wall-mount cabinet in robust sheet steel design with pivoting frame of 18 rack units serves for housing equipment in 19" design, e.g., a Fire Detection Control Panel Series BC216 in slide-in technology.



Features

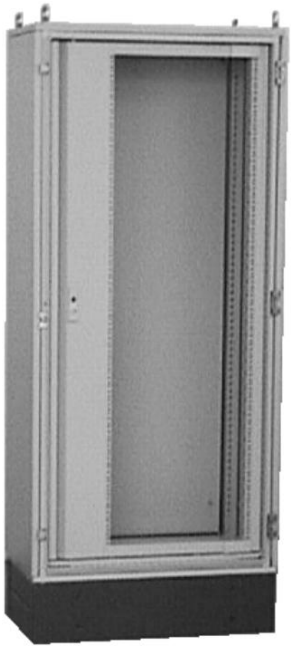
- Pivoting frame of 18 rack units and an aperture angle of 105°
- Integrated back wall 19" grid for additional system components
- Removable flange covers for cable entry on top and bottom sides of the cabinet
- Mounting rails for additional components

Specifications

Dimensions W × H × D	620 × 920 × 350 (mm)
Colour	grey white, RAL 9002
Weight	approx. 30kg

212028 Cabinet 19"/36HU GEH19/36

The 19" housing in robust steel sheet design with integrated 36 rack units pivoting frame is suitable for installing devices in 19" design, e.g., a Fire Detection Control Panel Series BC216.



Features

- Pivoting frame with 36 rack units and an aperture angle of 120°
- Side walls, back wall and top cover removable
- Mounting rails for additional components
- Side-by-side mounting with or without side wall
- Cable duct
- Built-in lighting
- Mounting plate
- 10cm or 20cm base optional

Specifications

Dimensions W × H × D	without base: 800 × 1800 × 500 (mm)
Colour	light grey, RAL 7035
Weight	approx. 150kg

212036 Cabinet 19"/40HU GEH19/40

The 19" floor type cabinet with a total height of 40 rack units serves for the housing of equipment in 19" design, e.g., a Fire Detection Control Panel Series BC216. The delivery scope of the cabinet includes a steel door with an 18RU Plexiglas window, as well as a pivoting frame of 18RU together with a mounting kit.

Features

- Robust sheet steel design
- Side walls on the left and on the right
- Door handle with locking element
- 100mm or 200mm base
- Cable duct
- Built-in lighting including connection cable
- Plastic pocket for schematic diagrams

Specifications

Dimensions W × H × D	without base: 800 × 2000 × 500 (mm)
Colour	light grey, RAL 7035
Weight	approx. 150kg

212037 Cabinet 19"/45HU GEH19/45

The 19" floor type cabinet with a total height of 45 rack units serves for the housing of equipment in 19" design, e.g., a Fire Detection Control Panel Series BC216. The delivery scope of the cabinet includes a steel door with an 18RU Plexiglas window, as well as a pivoting frame of 18RU together with a mounting kit.

Features
- Robust sheet steel design
- Side walls on the left and on the right
- Door handle with locking element
- 100mm or 200mm base
- Cable duct
- Built-in lighting including connection cable
- Plastic pocket for schematic diagrams

Specifications

Dimensions W × H × D	without base: 800 × 2200 × 600 (mm)
Colour	light grey, RAL 7035
Weight	approx. 165kg

212038 Plexiglas Cover 19"/6HU ADPLEX19-6H

The pane of Plexiglas is used for covering a redundant Display And Operating Front Panel ABP216-1E of an Extinguishing Control Panel Series LC216. The cover can be removed in the event of a failure of the active display and operating front panel.

Cross-references	Page	Art.No.	Name Type
	33	214208	Display And Operating Front Panel ABP216-1E/INT1
	50	218990T	Extinguishing Control Panel Series LC216, Description

212032 Transparent Door 19"/36HU SIT19/STAND

The transparent door is designed for fitting out the Housing 19"/36HU GEH19/STAND. It contains an acrylic glass pane as well as a double-bit insert for closure. The delivery scope includes the necessary mounting accessories.

Features
- Frame made of aluminium profiles
- Locking rod with double-bit insert
- Equipped with 180° hinges as standard
- Exchangeable 3mm thick acrylic glass pane
- Special sealing for protection class increase of housing equipped with transparent door

Specifications

Dimensions W × H × D	800 × 1800 × 40 (mm)
Colour (frame)	light grey, RAL 7035
Protection class (housing + door)	IP54

4 Extinguishing System Controls

218990T Extinguishing Control Panel Series LC216, Description

The Extinguishing Control Panel Series LC216 is an extended Fire Detection Control Panel BC216 with electrical control equipment for extinguishing systems. All functions of the fire detection control panel remain intact after the extension. A combined use as fire detection and extinguishing control panel is possible without further options.

The Extinguishing Control Panel Family Series LC216 includes the following types of control panels:

- The Extinguishing Control Panel LC216-1 for an extinguishing system with one flooding zone according to EN 12094-1 or with up to 8 flooding zones without compliance with EN 12094-1.
- The networked Extinguishing Control Panel LCnet216 with up to 127 extinguishing systems. The Control Panel LCnet216 consists of several sectional control panels, which are interconnected via the Global Security System Network GSSnet and thereby form a decentralised extinguishing system. Each extinguishing system can control up to 32 flooding zones, and each LCnet sectional control panel is able to administrate up to 8 flooding zones. A maximum of 127 flooding zones can be controlled by the networked Extinguishing Control Panel LCnet216.

The Extinguishing Control Panel Series LC216 fulfils all compulsory requirements and the options for highest safety demands according to EN 12094-1, EN 54-2, EN 54-4 and is VdS certified. The networked Extinguishing Control Panel LCnet216 can be easily implemented with a redundant design of the extinguishing system control, which is required if several flooding zones are to be actuated from one sectional control panel. In this case, 2 LCnet sectional control panels are identically parameterised at a time and all inputs, outputs and ADM loops of the extinguishing system are interconnected. The redundant sectional control panel is normally passive and only takes over the function of the active sectional control panel in case of its failure.

The function of the extinguishing control panel is enabled in the LC216-1 or LCnet sectional control panels once an options circuit with the correct setting is installed. The options circuit is part of the Extinguishing Control/8-Area Licence LC216-8LB.

The parameterisation of the Extinguishing Control Panel Series LC216 can be most easily accomplished via PC by means of the Windows Parameter Setup Software PARSOFT. The clear user interface allows an almost self-explanatory definition of system configurations and thereby minimises the requirement for training. Entered parameters are loaded into the control panel after automatic verification. In case of redundant extinguishing control panels, PARSOFT guarantees the synchronisation of parameters from active and redundant LCnet sectional control panels.

Specifications

see description of BC216-1, the BCnet sectional control panels and of the fire detection control modules

Approvals	VdS G206046 (as extinguishing control panel only) VdS G206089 (as combined fire detection and extinguishing control panel) 0786-CPD-20267 FT 14/423/06 (Austria)

218024 Exting. Control/8-Area Licence LC216-8LB

The license for extinguishing control panel is required for the administration of up to 8 flooding zones at the Fire Detection Control Panel Series BC216. This license allows you to manage up to 8 flooding zones on one control panel or sectional control panel.

Setup of the required parameters is accomplished using PARSOFT. The functions are specifically adapted to the requirements of EN 12094-1.

If the system size or country specific regulations require redundant operation of the extinguishing control panels, additional licenses are required for the redundant control panels.

Each sectional control panel that is used for extinguishing control in the network requires a license.

Note: the Extinguishing Control Panel Series LC216 can only be operated on a central processing board ZTB216-2 **with at least hardware version V4** as well as on a loop gateway board BCB216-3LG **with at least hardware version V3**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S**4** for V4). Furthermore, a firmware version **PL149 Vx.20 or newer** and a **PARSOFT version V1.20 or newer** are required for the operation and the setup of the extinguishing control panel, respectively.

Specifications

Approvals
VdS G206046 (as pure extinguishing control panel)
VdS G206089 (as combined fire detection and extinguishing control panel)
0786-CPD-20267
FT 14/423/06 (Österreich)

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1

210223 Fire/Extinguishing Control Panel BC06-1EXT/INT1

The combined Fire/Extinguishing Control Panel BC06-1EXT is a compact control panel for small fire detection and extinguishing systems with one flooding zone. The control panel fulfils all mandatory functions and the most important options of EN 12094-1. It was tested by VdS, according to the Construction Products Directive CPD, for compliance with the European Standards EN 54-2, EN 54-4 and EN 12094-1.

The control panel is integrated in a wall-mount cabinet. The cabinet consists of a powder coated steel sheet base and a removable plastic cabinet cover. In the basic version, the control panel contains 4 conventional detector zones for the connection of fire, fault and condition detectors, 2 freely parameterisable inputs, two independently monitored siren outputs as well as 2 relay outputs.

Furthermore, the wall-mount cabinet can accommodate an optional componentry (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.) as well as stand-by batteries 2 × 12V/max. 7Ah. Enclosed with the control panel is a documentation in English language.

The integrated extinguishing module provides inputs and outputs for the actuation and monitoring of the devices of an extinguishing system:

- Inputs for activation devices (for manual activation of the extinguishing system), for emergency hold devices (for delaying the flooding process) or for emergency abort devices (for aborting the flooding process)
- Input for fault detectors (e.g., monitoring the pressure of the extinguishing agent)
- Inputs for a disable device (for displaying the mechanical blocking of the extinguishing agent's pipe network), for a flooding switch (for displaying the flow of the exinguishing agent) and for switching into the manual only mode

- Outputs for signalling devices (e.g., sirens, warning signs) to display the activated condition and the released condition
- Extinguishing output for the line-monitored connection of the activation device for the extinguishing agent (e.g., solenoid valve)
- 8 open-collector outputs which output the conditions of the extinguishing module for further control tasks that may be required

The system-specific parameterisation of the control panel can be directly accomplished via the keypad of the integrated display and operating field without the requirement of any additional support. During commissioning of the extinguishing control, the functions of the extinguishing system, the combinations of the detector zone(s) for activation of the extinguishing output and the delay times for the sequence of the flooding process are parameterised depending on the used exinguishing agent (gas, water, etc.) as well as according to the country specific regulations. The practical factory settings allow easy and time-saving commissioning of the fire/extinguishing control panel.

Essential features

- RISC microprocessor technology
- Parameterisable detector zones for manual call points, automatic fire detectors with or without alarm verification, fault detectors with or without self-resetting
- With the help of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and from manual call points, which are both connected to the same detector line, can be distinguished by the Fire Detection Control Panel Series BC06
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected via parameterisation
- Independent indication of activation, fault and disablement of the alarming devices and joint operation by means of one button
- Summary LED indicators for information about all current events
- 4 LED pairs are automatically assigned to parameterised zones and display the activation, disablement and fault condition of the zones
- 12 light emitting diodes indicate the status messages of the extinguishing module
- All light emitting diodes can be labelled individually with labelling strips, which are inserted behind the front foil
- Event memory for the last 50 events in chronological order, to be output via the serial interface
- 2 dry contact outputs. These outputs are pre-set in the factory settings according to EN 54 standards (summary alarm and summary fault)
- 16 open-collector outputs which automatically signal the conditions of the zones, the common fault message, the common disablement condition of the zones as well as the conditions of the extinguishing module
- 'Panel reset' button for common reset of all current alarms
- 3 authorisation levels for operation and parameterisation, secured by numeric codes
- One mounting position for a Serial Interface Module SIM06-1, for connection of a serial protocol printer
- Control panel case provides space for accommodating stand-by batteries 2 × 12V/ max. 7Ah

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	27.6VDC
Output current of power supply	max. 2.3A
Output current siren outputs	
Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Output current exting. output	max. 1A
Output current activated condition	output/signal output
	max. 0.5A per output
Current consumption at 24V	
(without optional modules)	typ. 80mA (end-of-line resistor 5.6kOhm)
	typ. 65mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)

Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approvals	tested to EN 54-2, -4, EN 12094-1 by VdS

Cross-references	Page	Art.No.	Name Type
	5	249096	MCP Coding Module MCM1-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	4	210215	Serial Interface Module SIM06-1
	68	223026	Siren Connection Module SZ58-3
	336	310001	Stand-By Battery 12V/7AH

210220 Fire/Extinguishing Control Panel BC06-1EXT/D1

Functions, specifications and cross-references are equal to the Fire/Extinguishing Control Panel BC06-1EXT/INT1 but the manual comes in German language.

210226 Fire/Extinguishing Control Panel BC06-1EXT/S1

The functions, specifications and cross-references of the Swedish version of the Fire/Extinguishing Control Panel BC06-1EXT correspond to those of the Fire/Extinguishing Control Panel BC06-1EXT/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

Enclosed with the control panel is a documentation in Swedish language.

210224 Fire/Extinguishing Control Panel BC06-2EXT/INT1

Same design as Fire/Extinguishing Control Panel BC06-1EXT, but the display and operating field is equipped with an additional 4-digit, non-resettable alarm counter according to EN 54-2. Enclosed with the control panel is a documentation in English language.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren outputs	

Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Output current exting. output	max. 1A
Output current activated condition output/signal output	
	max. 0.5A per output
Current consumption at 24V	
(without optional modules)	typ. 80mA (end-of-line resistor 5.6kOhm)
	typ. 65mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm)
	typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approvals	tested to EN 54-2, -4, EN 12094-1 by VdS

Cross-references	Page	Art.No.	Name Type
	5	249096	MCP Coding Module MCM1-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	4	210215	Serial Interface Module SIM06-1
	68	223026	Siren Connection Module SZ58-3
	336	310001	Stand-By Battery 12V/7AH

210221 Fire/Extinguishing Control Panel BC06-2EXT/D1

Functions, specifications and cross-references are equal to the Fire/Extinguishing Control Panel BC06-2EXT/INT1 but the manual comes in German language.

222011 Extinguishing System Interface LSS1000-1

The componentry is used for the reactionless connection of an extinguishing system to a fire detection control panel. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016 and BC06.

Features

- Extinguishing system control according to VdS specifications
- System-neutral design for all extinguishing systems
- Processing logic for the actuation and confirmation of the extinguishing system

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24VDC	0mA (quiescent)
	20mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

223009 Control Zone Module SLM1-2

The componentry is installed in Fire Detection Control Panels Series BC216, Series BC016 and Series BC06 and serves for the line-monitored triggering of external devices with increased current demand (e.g., signalling devices, solenoid valves).

Features

- Hardware-controlled activation via control line
- Activation delay can be set from 0 to 90 seconds.
- Electronically limited load current
- Line-monitored output with fault reporting

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	30mA (quiescent)
Load current	max. 1.4A
Monitoring voltage	-1.2V
End-of-line resistor	5.6kOhm
Activation delay	0 to 90s
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	75 × 75 × 30 (mm)
Weight	120g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1

249097 Line-Coupler Redundance Control LKR21-1

The line coupler LKR21-1 is used to interconnect two actuation outputs with negative monitoring to an actuation device (e.g., solenoid valve). As a result of this coupling, a redundant activation of the actuation equipment in accordance with EN 12094-1 is ensured. Alternatively, the line coupler can couple two independent power supplies for the redundant supply of an electrical load.

The condition of the two actuation inputs of the line coupler, which are connected with the redundant actuation outputs or power supplies, is indicated by one light emitting diode per input.

The line coupler is accommodated in a grey plastic housing and is designed for indoor surface mounting.

Specifications

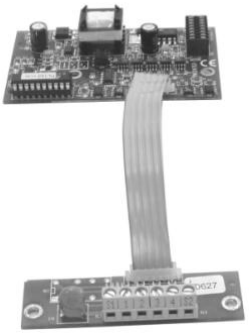
Input voltage	20 - 30VDC
Current consumption (when used for coupling two outputs)	
	0mA (both inputs in normal condition)
	55mA (both inputs active)
Current consumption (when used for coupling two power supplies)	
	55mA (both inputs supplied with 24V)
Contact rating of the relay	6A/24VDC
Ambient temperature	-5°C to +60°C

Protection class	IP55
Dimensions W × H × D	150 × 100 × 55 (mm)
Colour	light grey, RAL 7035
Weight	approx. 180g

5 Interfaces

214033 Network Interface Module NIF5-1M

The Network Interface Module NIF5-1M allows for the connection of BCnet sectional control panels of a Fire Detection Control Panel BCnet216 or other GSSnet members to the Global Security System network GSSnet, it is installed in all BCnet sectional control panels by default. The componentry is required to upgrade a 19" Compact Control Panel BC216-1CE to a BCnet sectional control panel.



Note: the Network Interface Module NIF5-1M can only be operated with a central processing board ZTB216-2. The type of the board is printed on a label.

Features

- Galvanically isolated RS485 interface

Specifications

Current consumption at 24V	typ. 25mA
Cable length between two NIF5-1	max. 1200m
Connection type	Screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	95 × 70 × 25 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	19	219998T	Fire Detection Control Panel BCnet216, Description

214027 Network Cable NWK2-1

The network cable – 4×2×AWG24/1 S/FTP, category 5, twisted pair – is used for the connection of GSSnet members (e.g., of BCnet sectional control panels which form a decentral Fire Detection Control Panel BCnet216) in the Global Security System network GSSnet.

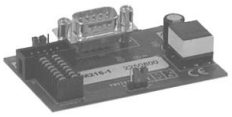
Specifications

Loop resistance	max. 16.8Ohm/100m at 20°C
Operating capacitance	4.9nF/100m at 1kHz
Capacitance interference	max. 59pF at 1MHz to 200MHz
Impedance	100 ± 15Ohm at 1kHz
Attenuation (50MHz)	max. 14dB/100m
Outer coat	FR-PVC/FR-I,SØH
Outer diameter	6.5mm
Min. bend radius	52mm
Max. tensile strength	25kg
Core diameter	0.51mm
Shield	Al-polyester foil + Cu-braid shield
Weight	51kg/km
Temperature range	-20°C to +75°C
Colour	grey, RAL 7032

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description

214025 Serial Interface Module SIM216-1

The Serial Interface Module SIM216-1 allows for the extension of a Fire Detection Control Panel Series BC216 or Series BC016 with a galvanically isolated RS232 interface for the connection of devices with serial data transfer (e.g., a protocol printer, a parameter setup PC).



Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	26	214034	BCnet Control Panel/Extension BCE216-3LG
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1

214231 Interface Adapter Module IAM216-1E

The Interface Adapter Module IAM216-1E allows for the extension of a Fire Detection Control Module BCM216-3EPS or BCM216-3E with a galvanically isolated RS232 interface for the connection of devices with serial data transfer (e.g., a protocol printer, a parameter setup PC). The functional unit consists of a Serial Interface Module SIM216-1 and an adapter board with flat cable for relocating the D-SUB plug of the SIM216-1 to the connection surface of the fire detection control modules.

Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	SIM216-1: 70 × 45 × 20 (mm) adapter board: 73 × 34 × 22 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	32	214234	Fire Detection Control Module/LG BCM216-3ELG
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E

223025 Ethernet Module ENM2-1

The Ethernet Module ENM2-1 is used to convert the setup data, which is transmitted via the Serial Interface Module SIM216-1, into an IP protocol. You can use the Parameter Setup Software PARSOFT-1 or PARSOFT-2 to realise a convenient remote access to the Fire Detection Control Panel Series BC216 or BC016.

The Ethernet module is integrated into the customer's LAN by the customer's system administrator like any member (e.g., PC, network printer). The Ethernet Module ENM2-1 is set up by means of the setup software ConfigENM2, which is included in the delivery of the Parameter Setup Software PARSOFT. The Ethernet module is contacted from the remote PARSOFT-PC via the specified IP address, when operating via PARSOFT there is no difference between on-site and remote operation.

Features

- Operation in DHCP or BOOTP networks
- Operation with static or dynamic IP address
- Remote operation via LAN, WAN or Internet
- Status LED
- Pre-configured data line to SIM216-1 included, length 1.8m
- Pre-configured power supply line included, length 1.8m

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	45mA
Ambient temperature	+5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	90 × 64 × 25 (mm, without mounting straps)
Weight	150g

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1

223027 Remote Access Module-PSTN FZP2-1

The Remote Access Module FZP2-1 is designed for the transmission of configuration data of Fire Detection Control Panels Series BC016 or BC216 via an analogue telephone line. Remote access of control panels with Parameter Setup Software PARSOFT-1 and PARSOFT-2 can be established in this way.

The serial interface of the module is connected to the Serial Interface Module SIM216-1 of the control panel via the provided cable. The telephone connection between the module and the telephone network (local loop or extension line) is established via the provided telephone cable with RJ11 connectors on both sides.

The device key of the module and the corresponding telephone number of the telephone extension, where the remote access module is connected, have to be entered in PARSOFT the first time a connection is established. These parameters are stored in the parameter file. The device key is placed on a label on the bottom side of the module.

Parameterisation and maintenance can be accomplished without limitations with PARSOFT, once control panel and PC are connected. There is no difference between local or remote access of the control panel.

Features

- Remote parameterisation and maintenance via analogue telephone line
- Status LED indicators for supply voltage and data transfer
- Includes pre-assembled serial data cable for SIM216-1, length approx. 1.8m
- Includes pre-assembled telephone cable, length approx. 2m

- Plug-in power adapter provided

Specifications

Operating voltage plug-in adapter	100 - 240VAC, 50 - 60Hz
Supply voltage FZP2-1	5VDC
Current consumption at 5V	max. 120mA
Transfer rate	38400 baud
Ambient temperature	0°C to +45°C
Dimensions L × W × H	85 × 40 × 25 (mm)
Weight without plug-in adapter	70g

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1

223028 Remote Access Module-GSM/GPRS FZG2-1

The Remote Access Module FZG2-1 is designed for the transmission of configuration data of a Fire Detection Control Panel Series BC016 or BC216 via a GSM connection. Remote access of control panels with Parameter Setup Software PARSOFT-1 and PARSOFT-2 can be established in this way.

The serial interface of the module is connected to the Serial Interface Module SIM216-1 of the control panel via the provided cable. The telephone connection between the module and the mobile phone network is established with the provided external antenna. The module has to be equipped with an SIM card activated for a circuit-switched data service (e.g., HSCSD). The SIM-card is not provided.

The device key of the module and the mobile phone number of the integrated SIM-card have to be entered in PARSOFT, the first time a connection is established. These parameters are stored in the parameter file. The device key is placed on a label on the bottom side of the module.

Parameterisation and maintenance can be accomplished without limitations with PARSOFT, once control panel and PC are connected. There is no difference between local or remote access of the control panel.

Features

- Remote parameterisation and maintenance via a mobile phone network
- Status LED indicators for supply voltage and data transfer
- Includes pre-assembled serial data cable for SIM216-1, length approx. 1.8m
- Includes GSM antenna with magnetic base, cable length approx. 3m
- Plug-in power adapter provided

Specifications

Operating voltage plug-in adapter	100 - 240VAC, 50 - 60Hz
Supply voltage FZG2-1	5VDC
Current consumption at 5V	typ. 1A, max. 2A
Transfer rate	9600 baud
GSM interface	900 / 1800MHz
Ambient temperature	0°C to +45°C
Dimensions L × W × H	85 × 40 × 25 (mm)
Weight without plug-in adapter	70g

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1

223041 SMS/E-Mail Transmitter Module SMS2-1/D1

The transmitter module SMS2-1/D1 can send SMS messages or e-mails to a maximum of 8 different users in order to provide a recipient with specific information.

The module can either receive event text messages from a Fire Detection Control Panel Series BC216 via serial ESPA data protocol and forward it without change, or it can transmit messages according to the parameterisation if the condition of one of the six inputs changes. In addition, the module contains 4 outputs that can be activated by SMS text messages for remotely controlling certain system functions. A GSM antenna, the serial connection cable to the control panel and the options circuit for activation of the ESPA interface on the control panel are provided together with the module. The required SIM card has to be provided by the customer.

The following parameters can be set:
- Events to be transmitted (alarm, fault, etc.)
- Transmission priority of events
- Transmission parameters of users (telephone number, e-mail address, disable time, etc.)
- Disable times or disable inputs for demand-orientated transmission to selected users
- System name

Please note: the Transmitter Module SMS2-1 can only be operated with a Central Processing Board ZTB216-2 using **hardware version V4 or newer versions.** The type of the central processing board can be found on a label. The version number is the last digit of the PCB version, which is printed in the left bottom corner of the printed circuit board (e.g., PN5233S**4** for V4). For operation of the transmitter module, a firmware version **PL149 Vx.20 or higher** is required, for parameterisation a **PARSOFT version Vl.20 or higher** is necessary.

Features
- Integrated web server with menu in German language
- Parameterisation via ethernet or dial-up connection
- RS232C interface, prepared for data transfer of event text messages from Fire Detection Control Panel Series BC216
- Six inputs, galvanically isolated
- Four outputs, galvanically isolated

Specifications

Operating voltage	10 - 29.5VDC
Current consumption at 24V	typ. 160mA, max. 330mA
Input voltage range	10 - 29.5VDC
Output voltage range	10 - 29.5VDC
Max. output voltage	0.5A per output
GSM-modem	900 / 1800MHz
Ethernet interface	RJ45, 10BaseT
Serial interface	RJ11, 9600 baud
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	105 (6 horizontal pitch units) × 85 × 58 (mm)
Weight	225g

Cross-references	Page	Art.No.	Name Type
	65	218023	ESPA 4.4.4 Interface Licence ESPA-SS
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1

223060 Gateway/IEC870-5-101/-104/BC216 IEC870-BC216-GW

The Gateway IEC870-BC216-GW serves as interface between the Fire Detection Control Panel Series BC216 and a primary control centre, according to the international interface standard IEC870-5-101 (RS232) or alternatively IEC870-5-104 (ethernet). For this purpose, the control panel has to be equipped with a ZLT interface (not provided).

On the one hand, events from the control panel can be transmitted to the primary control centre via the gateway, on the other hand, operations at the control panel can be performed depending on the parameterisation of the gateway.

The system-specific list of IEC data points and the assignment of detector zones have to be loaded into the gateway. This list can be easily created with the provided setup program (for Windows).

Please note: the IEC Gateway can only be operated with a Central Processing Board ZTB216-2 using **hardware version V4 or newer versions**. The type of the central processing board can be found on a label. The version number is the last digit of the PCB version, which is printed in the left bottom corner of the printed circuit board (e.g., PN5233S4 for V**4**). For operation of the gateway, a firmware version **PL149 Vx.20 or higher** is required, for parameterisation a **PARSOFT version Vl.20 or higher** is necessary.

Features

- 4000 IEC data points free to define
- Transmission of events from the control panel
- Configurable functions for the operation of the control panel
- RS232C interface for data transfer to control panel
- RS232C interface for data transfer to IEC870-5-101 control centre
- Ethernet interface for data transfer to IEC870-5-104 control centre
- Individual setting of all IEC parameters using the setup program
- Separate status LED indicators for each interface
- To be mounted on a DIN rail

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	typ. 125mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × D	168 × 118 × 54 (mm)
Protection class	IP30
Weight	820g

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1
	65	218022	ZLT Interface Licence ZLT-SS

223030 Long-Distance Modem BCnet216 MOD-1

The Long-Distance Modem BCnet216 MOD-1 allows you to extend the maximum distance between two sectional control panels of the Fire Detection Control Panel BCnet216 to up to 4km.

The sectional control panels are connected through a telephone cable with at least 2 free wire pairs. Each sectional control panel requires a Long-Distance Modem MOD-1 on both the incoming and outgoing side.

In this way, you can also bridge only individual sections of the high-security network, if required. The use of the long distance modem is furthermore recommended if no cabling with the minimum requirement of the Network Cable NWK2-1 can be provided by the customer.

Features

- Status LED for display of the data flow
- Automatic adaptation to the transfer rate of the GSSnet
- Easy DIN rail mounting
- Connection of the cables to terminals

Specifications

Supply voltage	21.6 to 26.4VDC
Current consumption at 24V	typ. 150mA
Line length	max. 4km
Number of wires required	4
Cable diameter	min. 0.3mm²
Line capacity	max. 42pF/m
Ambient temperature	+5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	75 × 129 × 169 (mm)
Weight	250g

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description
	343	229010	Voltage Stabilizer 24VDC STAB24-1

223032 Gateway Multimode Fibre-BCnet216 LWL-MM-2

The gateway LWL-MM-2 interconnects sectional control panels of the Fire Detection Control Panel BCnet216 via multimode optical fibres. An optical fibre cable with at least 2 free multimode fibres is needed for the connection. If required, only specific sections of the high security network GSSnet can be interconnected in this way.

Each sectional control panel requires one gateway each for in- and output. The ends of multimode fibres have to be fitted with an 'ST' connector (not provided) for optical fibres.

Features

- Status LED indicator to display data transfer
- All parameters to be set via a DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 200mA
Length of optical fibre	max. 4km with 62.5/125µm multimode fibre max. 3km with 50/125µm multimode fibre
Type of fibre	50/125µm or 62.5/125µm / 850nm

Optical budget	8dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description

223033 Gateway Singlemode Fibre-BCnet216 LWL-SM-2

The gateway LWL-SM-2 interconnects sectional control panels of the Fire Detection Control Panel BCnet216 via singlemode optical fibres. An optical fibre cable with at least 2 free singlemode fibres is needed for the connection. If required, only specific sections of the high security network GSSnet can be interconnected in this way.

Each sectional control panel requires one gateway each for in- and output. The ends of singlemode fibres have to be fitted with an 'ST' connector (not provided) for optical fibres.

Features
- Status-LED indicator to display data transfer
- All parameters to be set via a DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 200mA
Length of optical fibre	max. 15km
Type of fibre	9/125µm / 1300nm
Optical budget	17dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description

223045 Data Logger Event Memory DLOG-1

The Data Logger DLOG-1 is used for storing all of the event data, which is output via the serial interface of a fire detection control panel, on an SD memory card. For this, the data logger is connected with the serial interface of the fire detection control panel and the necessary parameterisation of the interface is carried out at the control panel. The data storage is started automatically when the supply voltage is applied.

To read out the event data, the memory card is removed from the data logger and inserted into the memory card reader of a PC or into the memory card slot of a notebook. The event data is stored in the "logdata.txt" file in the ASCII format, with fixed column width and without separator and can be opened and processed using any word processing program.

Features
- Status LED indicates the data storage
- Up to 4 million events on a 1GB memory card
- Memory card, cable for connection of the power supply and two different data cables included in the delivery

Specifications

Operating voltage	6 to 32VDC
Current consumption at 24V	typ. 65mA
Storage device	SD memory card
Length of power supply cable	approx. 1.8m
Length of standard data cable	approx. 3m
Length of flat data cable	approx. 0.8m
Ambient temperature	-5°C to +60°C
Dimensions L × W × H	72 × 51 × 24 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	58	214025	Serial Interface Module SIM216-1

218022 ZLT Interface Licence ZLT-SS

The ZLT interface license is required for the communication of Fire Detection Control Panels Series BC216 with superior alarm monitoring systems. According to requirements, the superior operation control system can display only the states of the fire detection control panel or additionally allow for the operation of zones, actuations, etc. The ZLT interface license is required in the sectional control panel that is connected to the operation control system.

Note: the ZLT interface can only be operated on a central processing board ZTB216-2 **with at least hardware version V4**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S**4** for V4).

Cross-references	Page	Art.No.	Name Type
	26	214034	BCnet Control Panel/Extension BCE216-3LG
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	32	214234	Fire Detection Control Module/LG BCM216-3ELG
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1

218023 ESPA 4.4.4 Interface Licence ESPA-SS

The ESPA interface license is required for the communication of Fire Detection Control Panels Series BC216 with pager systems, DECT systems, visual call systems, etc., which provide an ESPA 4.4.4 interface for the transmission of display texts. You can define the text length as well as the type of the messages (alarms, technical messages, etc.) for up to 2 receiver groups at the fire detection control panel. The ESPA interface license is required in the sectional control panel that is connected to the respective system.

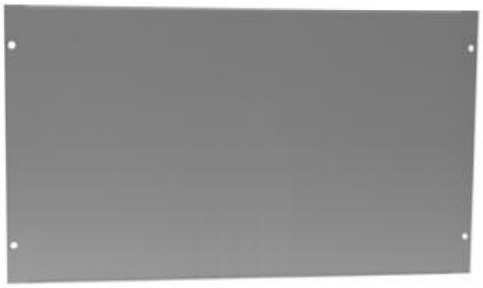
Note: the ESPA interface can only be operated on a central processing board ZTB216-2 **with at least hardware version V4** as well as on a loop gateway board BCB216-3LG **with at least hardware version V3**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S**4** for V4). Furthermore, a firmware version **PL149 Vx.20 or newer** and a **PARSOFT version V1.20 or newer** are required for the operation and the setup of the interface, respectively.

Cross-references	Page	Art.No.	Name Type
	26	214034	BCnet Control Panel/Extension BCE216-3LG
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3

22	214056	BCnet Control Panel with Operat. BC216-2/INT1
32	214234	Fire Detection Control Module/LG BCM216-3ELG
30	214204	Fire Detection Control Module/PS BCM216-3EPS
31	214205	Fire Detection Control Module BCM216-3E
27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
13	214008	Fire Detection Control Panel BC216-1/INT1
344	218008	Parameter Setup Software PARSOFT-2

214176 BCnet-LBC Gateway 19"/6HU BCNET-LBC-GW

The BCnet-LBC Gateway allows for the integration of an LBC Fire Detection Control Panel or the main control panel of an LBC Control Panel Compound into the Global Security System network GSSnet of a Fire Detection Control Panel BCnet216. The LBC Fire Detection Control Panel is connected to the RS232C interface of the BCnet-LBC Gateway which deals with the conversion between the LBC data protocol and the GSSnet data protocol. Therewith, the detector zones, actuations, alarming devices and transmitting devices connected to the LBC Fire Detection Control Panel can be displayed and operated by the superior Fire Detection Control Panel BCnet216 the same way as those from the BCnet216. This way, up to 9700 detector zones as well as 9700 actuations can be combined in a conjoint fire detection control panel.



The BCnet-LBC Gateway already includes the basic license for the integration of the LBC1000 main control panel. If further sub control panels exist in the LBC Fire Detection Control Panel, the additionally required LBC Sub-Unit Licenses LBC-UZ have to be ordered separately.

The LBC texts can be conveniently and efficiently imported from the *.lt files of the LBC setup by using PARSOFT-2. So, in the event of an alarm or fault, the detector text of the LBC detectors is displayed on the display and operating field of the BCnet216 members.

The BCnet-LBC Gateway is designed as BCnet sectional control panel in 19" slide-in technology with a height of 6 rack units without display and operating field ("Black Box" control panel).

The BCnet-LBC Gateway allows for the installation of up to 2 Conventional Detector Interfaces GIF8-1 for the connection of optional redundant alarm lines to the LBC control panels or conventional detector lines, but no loop Interfaces LIF64-1 or LIF128-1.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, Art. No. 219998T.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 rack units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 7.2kg

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description
	67	218021	LBC Sub-Unit Licence LBC-UZ

218021 LBC Sub-Unit Licence LBC-UZ

The license for a sub control panel is required for the integration of an LBC sub control panel (LBC1000 or LBC32) into the Global Security System network GSSnet. The license must be ordered together with the BCnet-LBC Gateway.

Cross-references	Page	Art.No.	Name Type
	66	214176	BCnet-LBC Gateway 19"/6HU BCNET-LBC-GW

219010 Programming Cable BC216/RS232 PK216-1

The cable is used for connecting a COM interface of a PC with the Serial Interface Module SIM216-1 of a Fire Detection Control Panel Series BC216 or Series BC016.

Specifications

Cable length	1.8m
Connection type	9-pole D-SUB socket on both sides

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	344	218008	Parameter Setup Software PARSOFT-2
	58	214025	Serial Interface Module SIM216-1

6 Additional Modules for Fire Detection Control Panels

223024 Siren Connection Module SZ58-2

The Siren Connection Module SZ58-2 is installed particularly in Fire Detection Control Panels Series LBC to allow for the connection of acoustic signalling devices (e.g., sirens) to two separately controlled line-monitored electric circuits. The signalling devices can be supplied either directly by the fire detection control panel or, at increased current demand, by an external power supply.

Features

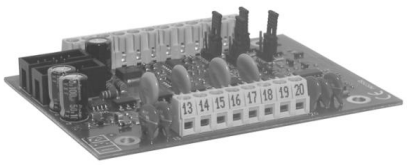
- Connection to a monitored siren output of the fire detection control panel
- Activation via selectable detector zone outputs
- Activation via an external switch
- Monitored voltage at external and internal supply of the signalling devices
- Separately fused outputs
- Monitoring of the signalling device lines through negative monitoring voltage – thereby the interfering activation of the signalling devices by the quiescent monitoring current is prevented

Specifications

Operating voltage	20 to 31VDC
External supply voltage	20 to 36VDC
Current consumption at 24V	10mA (quiescent)
Load current per output	max. 500mA (externally supplied)
Output voltage siren circuit idle	-1.1VDC
Output voltage siren circuit active	approx. equal to supply voltage
End-of-line resistor	5.6kOhm
Quiescent monitoring current	0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	95 × 75 × 15 (mm)
Weight	50g

223026 Siren Connection Module SZ58-3

The Siren Connection Module SZ58-3 is designed with four siren circuits for activation of remote signalling devices (e.g., sirens, strobes) to expand control panels Series BC216, BC016 and BC06. All four siren circuits have separately actuatable, individually fused and monitored outputs. In addition, each circuit contains a separate fault detection output. Monitored signalling devices may either be supplied by the control panel or, at higher current demand, by an external power supply.



Features

- 4 individually fused and monitored siren circuits
- Display of 'active' and 'fault' state of each circuit
- Separate fault detection output for each siren circuit with direct response to a conventional detector zone, an input on the central processing board or an input on the fire brigade interface
- Activation via external switches or open-collector outputs of the control panel, connection either with terminals or flat cable

- Monitoring of the supply voltage of siren circuits
- Monitoring of signalling device lines by negative monitoring voltage - thereby, the activation of signalling devices is avoided by the monitoring quiescent current

Specifications

Supply voltage	21 - 30VDC
Sirens supply voltage	21 - 30VDC
Current consumption at 24V	typ. 15mA (all siren outputs quiescent)
Load current per siren circuit	max. 500mA
Output voltage (sirens quiescent)	typ. -1.2VDC
Output voltage (sirens activated)	external supply voltage minus typ. 1V
End-of-line resistor	5.6kOhm
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 18 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1

222007 Terminal Adapter Module SUB58-2

The componentry is used for the easy conversion of two 10-pole flat cable connectors to screw terminals. The cabling of two times 8 open collector outputs as well as the triggering of relay modules of type RL58-1 and RL58-2 in this way can be realised flexibly and according to the individual requirements.

Specifications

Connection technology	two 10-pole flat cable connectors 16 screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	85 × 30 × 20 (mm)
Weight	100g

Cross-references	Page	Art.No.	Name Type
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1

222004 Relay Module 8-Fold/60VDC RL58-1

The Relay Module RL58-1 is used for the switching of consumer loads via eight dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016 and Series BC06.

Features

- Eight independent relays with one dry changeover contact each
- Galvanically isolated switch contacts on separate terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	1A/60V/30W
Contact life	unloaded: approx. 5 million switching cycles at 24VDC/1A: approx. 300,000 switching cycles
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	85 × 65 × 37 (mm)
Weight	130g

Cross-references	Page	Art.No.	Name Type
	41	214003	Auxiliary Housing For BC216 GEH216-4
	43	214128	Battery Bracket BK216-1CE
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	44	212034	Module Carrier 19"/3HU MPL17/3

222010 Relay Module 4-Fold/230VAC RL58-2

The Relay Module RL58-2 is used for the switching of consumer loads with increased power demand via four dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016 and Series BC06.

Features

- Four independent relays with one dry changeover contact each
- Galvanically isolated changeover contacts on terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	3A/30VDC or 5A/230VAC
Contact life	unloaded: approx. 20 million switching cycles at 230VAC/3A: approx. 400,000 switching cycles
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 28 (mm)
Weight	120g

Cross-references	Page	Art.No.	Name Type
	43	214128	Battery Bracket BK216-1CE
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	44	212034	Module Carrier 19"/3HU MPL17/3
	43	214029	Mounting Bracket BW216-1

229008 Flat Cable 1700mm/10-Pole FBK17-1

The flat cable with a length of 1.7m is used for the connection of modules, which are connected via a 10-pole flat cable (e.g., Relay Modules RL58-1, RL58-2), if a longer cable than the supplied 300mm cable is required.

Cross-references	Page	Art.No.	Name Type
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	68	223026	Siren Connection Module SZ58-3

7 Protocol Printers

227003 Protocol Printer/Thermal DPU414-30B

The desktop printer is used as protocol equipment and is connected to a Serial Interface Module SIM216-1 of a Fire Detection Control Panel Series BC216 or Series BC016, or to a Serial Interface Module SIM06-1 of a Fire Detection Control Panel Series BC06.

Depending on the control panel, the logging includes the location of the activated detectors, detector zone number, date and time and any change in the operating condition of the fire detection control panel at the beginning and the end of the event. The events are printed as plain-text with 80 characters per line. In combination with Fire Detection Control Panels Series BC216 or Series BC016, the entire event memory and the parameterised system configuration can also be printed. If used in analogue technology, the current measured values of the detectors, the measured values of the previous 6 months, as well as a maintenance recommendation for every single detector can be printed once or periodically as well.

The protocol printer is supplied through the AC Adapter PW4007-E1 (not included in the delivery).

Features
- Thermal printer with 80 characters per line
- Power LED
- On line/OFF line switching with separate LED display
- "Paper feed" button
- Space for optional stand-by battery

Specifications

Power supply	external AC Adapter PW4007-E1
Ambient temperature	0°C to +40°C
Relative humidity	30 to 80% (no condensation)
Dimensions W × H × D	160 × 170 × 66.5 (mm)
Weight	580g

Cross-references	Page	Art.No.	Name Type
	72	227004	AC Adapter for DPU414 PW4007-E1
	73	227005	Battery For DPU414 BT4005
	58	214231	Interface Adapter Module IAM216-1E
	46	227009	Kit 19"/3HU for Printer DPU414 DPU2-1E
	73	227007	Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.
	4	210215	Serial Interface Module SIM06-1
	58	214025	Serial Interface Module SIM216-1
	73	227006	Spare Paper for DPU414/1-Roll MM112-402-N

227004 AC Adapter for DPU414 PW4007-E1

The power unit serves for the power supply of the Protocol Printer/Thermal DPU414-30B.

Specifications

Mains voltage	230VAC, 50Hz
Output voltage	6.5VDC
Output current	2.0A
Dimensions W × H × D	114 × 75 × 61 (mm)
Cable length	1.8m
Weight	approx. 1kg

Cross-references	Page	Art.No.	Name Type
	72	227003	Protocol Printer/Thermal DPU414-30B

227005 Battery For DPU414 BT4005

The stand-by battery is suitable for installation in the Protocol Printer/Thermal DPU414-30B.

Specifications

Type	Ni-MH
Voltage	4.8VDC
Weight	approx. 120g

Cross-references	Page	Art.No.	Name Type
	72	227003	Protocol Printer/Thermal DPU414-30B

227007 Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.

The cable is used for connecting the Protocol Printer/Thermal DPU414-30B to the serial interface module of a Fire Detection Control Panel Series BC216, Series BC016 or BC06.

Specifications

Cable length	1.8m

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	72	227003	Protocol Printer/Thermal DPU414-30B
	4	210215	Serial Interface Module SIM06-1
	58	214025	Serial Interface Module SIM216-1

227006 Spare Paper for DPU414/1-Roll MM112-402-N

The spare roll of thermal paper is suitable for the Protocol Printer/Thermal DPU414-30B.

Cross-references	Page	Art.No.	Name Type
	72	227003	Protocol Printer/Thermal DPU414-30B

227008 Protocol Printer/Dot-Matrix LX300

The desktop printer is used as protocol equipment and is connected to a serial interface module of a Fire Detection Control Panel Series BC216 or Series BC016, or to a Serial Interface Module SIM06-1 of a Fire Detection Control Panel Series BC06.

Depending on the control panel, the logging includes the location of the activated detectors, detector zone number, date and time and any change in the operating condition of the fire detection control panel at the beginning and the end of the event. The events are printed as plain-text with 80 characters per line. In combination with Fire Detection Control Panels Series BC216 or Series BC016, the entire event memory and the parameterised system configuration can also be printed. If used in analogue technology, the current measured values of the detectors, the measured values of the previous 6 months, as well as a maintenance recommendation for every single detector can be printed once or periodically as well.

Note: Replacement ribbon cartridges are available in specialised stores.

Features

- Low-noise 9 dot-matrix printer with 80 characters per line
- Use of continuous paper
- High printing speed

Specification

Mains voltage	230VAC +10/-15%, 50Hz
Nominal current	0.5A
Power consumption	approx. 30W
Ambient temperature	+5°C to +35°C
Relative humidity	5 to 85% (no condensation)
Dimensions W × H × D	366 × 147 × 275 (mm)
Weight	approx. 4kg

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	74	227010	Printer Cable for LX300/3m 25POL.D-SUB-VERL.
	4	210215	Serial Interface Module SIM06-1
	58	214025	Serial Interface Module SIM216-1

227010 Printer Cable for LX300/3m 25POL.D-SUB-VERL.

The serial data cable is used for the connection of a protocol printer of type LX300 to a Fire Detection Control Panel Series BC216, BC016 or BC06. The cable is configured with a 9-pole D-SUB socket and a 25-pole D-SUB connector.

Specifications

Cable length	3m

Cross-references	Page	Art.No.	Name Type
	58	214231	Interface Adapter Module IAM216-1E
	74	227008	Protocol Printer/Dot-Matrix LX300
	4	210215	Serial Interface Module SIM06-1
	58	214025	Serial Interface Module SIM216-1

8 Display and Operating Devices

250039 Remote Display A. Operation Panel ABF216-1/INT1

The remote display and operating panel is used for operating and displaying all events of a Fire Detection Control Panel BCnet216. The remote panel provides the same operation convenience and the same information (LED displays and 4-line text display) as any operatable sectional control panel. The ABF216-1 is installed in a wall-mount cabinet.

The labels of display and operating elements as well as the displayed texts are in English language.

Features

- Connection as GSSnet member to the GSSnet of the Fire Detection Control Panel BCnet216
- Operation and display of all events of the fire detection control panel
- 4-line display texts
- Menu-controlled operation
- Continuous supervision of the data exchange with the control panel
- Power supply via the fire detection control panel

Specifications

Operating voltage	15 - 31VDC
Current consumption at 24V	140mA (normal)
GSSnet line length	max. 1200m on each side to the adjacent GSSnet member (with Cat 5 cable)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 65 (mm)
Colour	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.No.	Name Type
	19	219998T	Fire Detection Control Panel BCnet216, Description

250030 Remote Display A. Operation Panel ABF216-1/A1

The remote display and operating panel in the version for Austria is used for operating and displaying all events of a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in German language.

250705 Remote Display A. Operation Panel ABF216-1/D1

The remote display and operating panel in the version for Germany is used for operating and displaying all events of a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in German language.

250052 Remote Display A. Operation Panel ABF216-1/S1

The functions, specifications and cross-references of the Swedish version of the Remote Display and Operating Panel ABF216-1 correspond to those of the Remote Display and Operating Panel ABF216-1/INT1. In addition, a lock that allows the fire brigade personnel to directly access authorization level 2, is integrated in the operating field.

The labels of the display and operating elements as well as the displayed texts are in Swedish language.

250036 Remote Display A. Operation Panel ABF216-1/B1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in French language.

250033 Remote Display A. Operation Panel ABF216-1/CZ1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Czech language.

250038 Remote Display A. Operation Panel ABF216-1/H1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Hungarian language.

250035 Remote Display A. Operation Panel ABF216-1/NL1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Dutch language.

250037 Remote Display A. Operation Panel ABF216-1/SK1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Slovak language.

250046 Remote Display A. Operation Panel ABF216-1/RUS1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Russian language.

250047 Remote Display A. Operation Panel ABF216-1/SLO1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Slovenian language.

250048 Remote Display A. Operation Panel ABF216-1/I1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Italian language.

250049 Remote Display A. Operation Panel ABF216-1/PL1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Polish language.

250050 Remote Display A. Operation Panel ABF216-1/HR1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Croatian language.

250020 Remote Tableau SG70-1

The Remote Tableau SG70-1 is designed for the indication of the events and operating conditions of Fire Detection Control Panels Series BC016 and BC216 at a remote site. Light emitting diodes indicate the most important operating conditions of the control panel. On the integrated 4-line LC display, events of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll buttons. In addition, alarms and faults are signalled by the integrated buzzer.

The fields 'TRANSMITTING DEVICE' and 'ALARMING DEVICE' are structured in the same way as the corresponding fields of the fire detection control panel. They serve for the remote indication and operation of the primary transmitting device and of the alarming device.

By means of the Parameter Setup Software PARSOFT, filters can be set in order to limit the indication of events. With that, certain types of events (e.g., technical messages, faults) can be suppressed, or number ranges for the read-out can be determined. In this way, area tableaus for floors or buildings can be implemented easily.

The Remote Tableau SG70-1 is actuated via the INFO bus of the control panel. The remote tableau can be connected to a Fire Detection Control Panel Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- 4-line LC display for the indication of events as clear text
- LED displays for important operating conditions
- 'TRANSMITTING DEVICE' and 'ALARMING DEVICE' fields analogous to those on the control panel
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 2 auxiliary inputs and reserve button with parameterisable function
- Lettering of the display and operating elements by means of labelling strips
- Sheet steel housing for wall mounting
- Optionally, key switch for enabling the menu control can be installed afterwards

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	20mA (display and LEDs dark) 90mA (display test)
Baud rate	600, 1200, 2400, 4800 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	174 × 250 × 28.5 (mm)
Colour housing	grey white, RAL 9002
Colour front foil	light grey, RAL 7035
Weight	1.2kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	78	250021	Key Switch Set Complete SCH70-1
	10	210112	Serial Interface Module SIM016-3

250021 Key Switch Set Complete SCH70-1

The Key Switch Set SCH70-1 can optionally be installed in the Remote Tableau SG70-1 if the application requires higher security against unauthorized access. In this case, the menu control is enabled by operating the key switch.

The key switch can also be installed later on.

Cross-references	Page	Art.No.	Name Type
	77	250020	Remote Tableau SG70-1

250013 Remote Display/Alarm/Fault SG48-2

The Remote Display SG48-2 is used for the optical and acoustic indication of summary alarm and fault signals from fire detection control panels. The remote display can be surface or flush mounted in dry rooms.

Features

- Optical indication via LEDs
- Acoustic indication by means of integrated buzzer with silence function
- Display unit and reset button for the buzzer integrated in front panel
- Alternative buzzer connection options for fault and alarm indication

Specifications

Supply voltage	20 to 31VDC
Current consumption at 24V	per LED: 20mA buzzer 17mA
Number of wires for connection	4

Ambient temperature	-5°C to +50°C
Dimensions L × W × D	86 × 86 × 40 (mm)
Colour	white
Weight	170g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1

251003 Remote Indicator PA58-3

The Remote Indicator PA58-3 serves for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.

Features

- High-power LED
- Connection of up to 3 indicators to one detector
- Supply via detector line
- Plastic case with red cap
- Surface mounting or flush mounting on 55/60mm installation box

Specifications

Operating voltage	supply through the detector line or loop voltage
Current consumption at 24V	typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP42
Dimensions W × H × D	80 × 80 × 27 (mm)
Colour	white
Weight	42g

251004 Remote Indicator PA58-3/IP65

The Remote Indicator PA58-3/IP65 serves for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.

Thanks to the sealed housing with protection class IP65, the remote indicator is also suitable for outdoor use or for harsh environmental conditions.

Features

- High-power LED
- Connection of up to 3 indicators to one detector
- Supply via detector line

- Remote indicator with red cap
- Plastic housing with transparent cover
- PG screw connection included in the delivery

Specifications

Operating voltage	supply through the detector line or loop voltage
Current consumption at 24V	typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP65
Cable diameter	4 - 10 (mm)
Dimensions W × H × D	105 × 105 × 66 (mm, without cable glands)
Colour	light grey/transparent
Weight	290g

252010 LED Display Tableau LAT288-1

The LED Display Tableau LAT288-1 allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC016 or BC216 and of an Extinguishing Control Panel Series LC216 via parameterisable LED pair indicators. The tableau housing consists of a wall-mount case made of powder coated steel sheet, which accommodates up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.

The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs. Besides LED-display fields, further optional componentries (e.g., relay modules) and up to 2 × 12V/max. 22Ah stand-by batteries (at the bottom of the case) can be accommodated.

Specifications

Dimensions W × H × D	420 × 520 × 120 (mm)
Colour of cabinet	grey white, RAL 9002
Colour of front foil	light grey, RAL 7035
Weight	6.2kg (without optional componentries)

Cross-references	Page	Art.No.	Name Type
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	81	252012	Remote Tableau Drive Unit PTU288-1
	336	310002	Stand-By Battery 12V/18AH

252011 LED Display Tableau LAT288-1CE

The LED Display Tableau LAT288-1CE allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC016 or BC216 or of an Extinguishing Control Panel Series LC216 via parameterisable LED indicator pairs. The tableau housing consists of a 19" rack-mount case made of powder coated steel sheet, providing space for the installation of up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.

The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs.

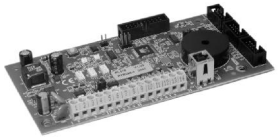
Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 55 (mm)
Colour of case	grey white, RAL 9002
Colour of front foil	light grey, RAL 7035
Weight incl. PTU288-1	approx. 1.6kg

Cross-references	Page	Art.No.	Name Type
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	81	252012	Remote Tableau Drive Unit PTU288-1

252012 Remote Tableau Drive Unit PTU288-1

The Remote Tableau Drive Unit PTU288-1 allows to optically signal events of a Fire Detection Control Panel Series BC016 or BC216 or of an Extinguishing Control Panel Series LC216 on an LED display tableau or on a synoptic remote tableau. Further, an integrated buzzer indicates the alarm condition and fault condition of the control panel.



Up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 can be connected to the remote tableau drive unit. A remote tableau with up to 144 parameterisable LED indicators can be created in combination with an optional LED Display Tableau LAT288-1 or LAT288-1CE. To design synoptic remote tableaus, the Remote Tableau Drive Unit PTU288-1 can be installed, in combination with LED connection modules, in any housing. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

The remote tableau drive unit is actuated via the INFO bus of the control panel. A Serial Interface Module SIM016-3 is required for connecting the PTU288-1 to a Fire Detection Control Panel Series BC016, whereas connection to the Fire Detection Control Panel Series BC216 does not require any additional modules. Up to 6 Remote Tableau Drive Units PTU288-1 can be connected to one control panel.

Features

- 5 parameterisable inputs for control functions
- Possible connection of up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 in any combination
- LEDs can be used to indicate the conditions of detectors, detector zones, actuations, actuation elements, alarming devices, transmitting devices, extinguishing systems or flooding zones and the most important system conditions (e.g., summary alarm, fault or disabled condition) depending on the parameter setup
- Individual or summary display of events from detectors, detector zones, actuations, actuation elements, alarming devices and transmitting devices, depending on the parameter setup
- USB interface for parameter setup using the Parameter Setup Software PARSOFT (PARSOFT version V1.21 or higher is required for parameterisation of the PTU288-1)
- Setable baudrate and INFO bus address

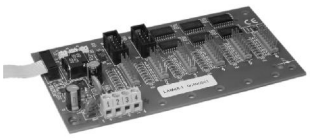
Specifications

Operating voltage	15 - 31VDC
Current consumption at 24V	typ. 15mA (without LED componentries)
Ambient temperature	-20°C to +60°C
USB connection	USB plug socket type B
Dimensions L × W × H	150 × 75 × 20 (mm)
Weight	76g

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	82	252013	LED Connection Module LAM48-1
	38	214024	LED Display Field LAB48-1
	39	214030	LED Display Field LAB48-2
	39	214032	LED Display Field LAB48-3
	40	214036	LED Display Field LAB48-4
	80	252010	LED Display Tableau LAT288-1
	80	252011	LED Display Tableau LAT288-1CE
	10	210112	Serial Interface Module SIM016-3

252013 LED Connection Module LAM48-1

The LED Connection Module LAM48-1 is connected to the Remote Tableau Drive Unit PTU288-1 and indicates events from a Fire Detection Control Panel Series BC016 or BC216 or from an Extinguishing Control Panel Series LC216 via 48 LED indicators or relay outputs. The LED connection module is therefore ideal for the design of synoptic remote tableaus.



Each of the 48 outputs can be used for actuation of one light emitting diode or of one relay output of a Relay Module RL58-1 or RL58-2. The signals are available at a pin strip header, which is prepared for the connection of pre-assembled LED cables. The first 16 outputs are available, in addition, at two ten-pin connectors, each for the connection of one Relay Module RL58-1 or one RL58-2 via a flat cable. If more than 16 relay outputs are required, further actuation inputs of additional relay modules can be connected to the LED connection module via suitable connection cables. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

Specifications

Operating voltage	15 - 31VDC
Current consumption at 24V	typ. 3mA (quiescent) max. 80mA (lamp test, 48 LEDs connected)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	135 × 75 × 15 (mm)
Weight	62g

Cross-references	Page	Art.No.	Name Type
	83	259013	Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10
	83	259011	LED Assembled Green/10pcs. LED-GN/10
	83	259010	LED Assembled Red/10pcs. LED-RT/10
	83	259012	LED Assembled Yellow/10pcs. LED-GE/10
	81	252012	Remote Tableau Drive Unit PTU288-1

259011 LED Assembled Green/10pcs. LED-GN/10

The assembled light emitting diodes are used for simple and quick wiring and mounting of green LED indicators on a synoptic remote tableau. The packing unit contains 10 LEDs with an assembled connection cable.

Features

- On one end, each cable has attached a bright green 5mm LED indicator, and on the other end a 2-pin connector, which fits the 2.54mm grid of the pin strip header on the LED Connection Module LAM48-1
- For each LED indicator, a black plastic LED clip is provided to guarantee a time-saving installation of LEDs
- No soldering required

Specifications

Operating voltage	supply via LED Connection Module LAM48-1
Length of LED cable	2m
LED Ø	5mm
Drilling for LED clip Ø	6.3 - 6.5mm
Thickness of front panel	max. 2mm

Cross-references	Page	Art.No.	Name Type
	82	252013	LED Connection Module LAM48-1

259010 LED Assembled Red/10pcs. LED-RT/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright red LED indicators.

Cross-references	Page	Art.No.	Name Type
	82	252013	LED Connection Module LAM48-1

259012 LED Assembled Yellow/10pcs. LED-GE/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright yellow LED indicators.

Cross-references	Page	Art.No.	Name Type
	82	252013	LED Connection Module LAM48-1

259013 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10

The two-pin connection cable connects light emitting diodes or relays to the LED Connection Module LAM48-1. The cable is required if non-assembled LEDs are used, or if more than two Relay Modules RL58-1 or RL58-2 (which can be directly connected to the LED Connection Module via a flat cable) are being actuated. In this case, the cable connects two additional actuation inputs of a further Relay Module RL58-1 or RL58-2.

One side of the cable has a connector assembled, fitting to the pin strip header of the LED connection Module LAM48-1, the other side has flying leads. The packing unit contains 10 cables.

Specifications

Length of cable 2m

Cross-references	Page	Art.No.	Name Type
	82	252013	LED Connection Module LAM48-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1

9 Conventional Detectors Series FC600

241070 Optical Smoke Detector/600 FC600/O

The Optical Smoke Detector FC600/O operates with an optical sensing chamber on the principle of scattered light. The detector is designed for applications using addressable conventional technology. For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing and is designed for indoor mounting. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection
- Insect screen
- Double dust trap
- Easy function testing using a magnet or test gas

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	LPCB 603a/01 0832-CPD-0125

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	103	246071	Detector Base/600/Diode FC600/BRD
	103	246070	Detector Base/600 FC600/BR
	79	251003	Remote Indicator PA58-3

242070 Thermal RoR Detector/600/A1R FC600/TDIFF/57

The Thermal Rate-of-rise Detector FC600/TDIFF/57 reacts to temperature changes in defined time intervals (rate-of-rise principle) or to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed

directly on the fire detection control panel, provided that these functions are supported by the control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector.

The detector is accommodated in a white housing. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Alarm temperature	typ. 57°C (maximum heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	LPCB 603b/02 0832-CPD-0127

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	103	246071	Detector Base/600/Diode FC600/BRD
	103	246070	Detector Base/600 FC600/BR
	79	251003	Remote Indicator PA58-3

242071 Thermal Max Detector/600/BS FC600/TMAX/78

The Thermal Max Detector FC600/TMAX/78 reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector.

The detector is accommodated in a white housing. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Alarm temperature	typ. 78°C
Operating temperature	max. +60°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	max. 95% (no condensation)

Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	LPCB 603b/01 0832-CPD-0126

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	103	246071	Detector Base/600/Diode FC600/BRD
	103	246070	Detector Base/600 FC600/BR
	79	251003	Remote Indicator PA58-3

241991T Detector Series FC600/FI700 in special designs

On request, the automatic detectors Series FC600, FI700 and FI700/RF (optical smoke detectors, optical-thermal detectors and thermal detectors) are available in special designs. You can choose from among 14 different finishes with wood grain, marble design or metal design.

Furthermore, the standard bases which accommodate the detectors are also available in the same design.

10 Analog Detectors and Modules Series FI700

241080 Optical Smoke Detector/700 FI700/O

The Optical Smoke Detector FI700/O operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on ADM loops with Labor Strauss/700 protocol. In the parameter settings of the control panel, one of 4 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. As a result, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator interrupts the loop in the event of a short circuit. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing and is designed for indoor mounting. Several base types are available for mounting the detector.

Features

- Output for external remote indicator
- Mechanical theft protection in the base
- Double dust trap and insect screen
- Easy function testing by means of magnet or test gas

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 90µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Sensitivity	
Level 1	1.37%/m
Level 2	2.05%/m
Level 3	2.50%/m
Level 4	2.95%/m
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	90g
Approvals	LPCB pending
	0086-CPD-504705

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B
	105	246081	Detector Base/700 FI700/BD
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

241081 Optical-Thermal Detector/700 FI700/OT

The Optical-Thermal Detector FI700/OT operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise thermal sensor according to EN 54-5, Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on ADM loops with Labor Strauss/700 protocol. In the parameter settings of the control panel, one of 4 sensitivity levels of the smoke detection unit can be selected, thereby adapting the detector optimally to the respective application. A thermal-only operation is also possible.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. As a result, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator interrupts the loop in the event of a short circuit. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing and is designed for indoor mounting. In the thermal-only mode the room height is limited to 7.5m. Several base types are available for mounting the detector.

Features

- Output for external remote indicator
- Mechanical theft protection in the base
- Double dust trap and insect screen
- Easy function testing by means of magnet, test gas or test device for thermal detectors

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 90µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Sensitivity smoke detection unit	
Level 1	1.37%/m
Level 2	2.05%/m
Level 3	2.50%/m
Level 4	2.95%/m
Alarm temperature	+58°C (Class A1R)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	90g
Approvals	LPCB pending
	0086-CPD-504706

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B
	105	246081	Detector Base/700 FI700/BD
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

242080 Thermal Detector/700 FI700/T

The Thermal Detector FI700/T is based on the principle of heat detection. On the fire detection control panel, the detector can be parameterised as rate-of-rise detector with a maximum temperature of 58°C (Class A1R) or as maximum heat detector with an alarm temperature of 78°C (Class B). The detector is designed for use on ADM loops with Labor Strauss/700 protocol.

The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator interrupts the loop in the event of a short circuit. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing. If the detector operates as rate-of-rise detector (Class A1R), it can be used in rooms with a maximum height of 7.5m. If the detector is used as maximum heat detector (Class B), a maximum room height of 6m is permissible. Several base types are available for mounting the detector.

Features

- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing by means of magnet or test device for thermal detectors

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 90µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Alarm temperature	+58°C (Class A1R) +78°C (Class B)
Operating temperature	max. +45°C (Class A1R) max. +60°C (Class B)
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	90g
Approvals	LPCB pending 0086-CPD-504704

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B
	105	246081	Detector Base/700 FI700/BD
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

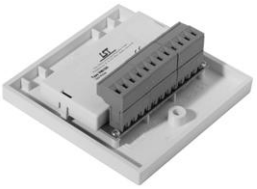
241991T Detector Series FC600/FI700 in special designs

On request, the automatic detectors Series FC600, FI700 and FI700/RF (optical smoke detectors, optical-thermal detectors and thermal detectors) are available in special designs. You can choose from among 14 different finishes with wood grain, marble design or metal design.

Furthermore, the standard bases which accommodate the detectors are also available in the same design.

249250 Monitor Module 1xIn/700 FI700/M1IN

The Monitor Module FI700/M1IN is integrated into an ADM loop with Labor Strauss/700 protocol and provides a line-monitored input for the connection of contact detectors. With that, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system with loop technology.



In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

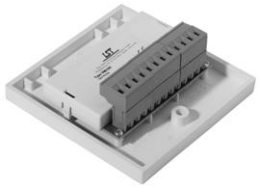
Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP42 (in connection with module box)
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approval	0086-CPD-533485

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	106	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	108	249272	Programming Unit FI700 FI700/PU

249251 Control Module 1xOut/700 FI700/M1OUT

The Control Module FI700/M1OUT is integrated into an ADM loop with Labor Strauss/700 protocol and provides a line-monitored output for the actuation of external devices. With that, fire doors, sirens or solenoid valves can be easily integrated into a fire detection system with loop technology. The connected load is powered by an external power supply.



In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two-coloured status LED indicates the activaton of the output and the fault condition
- Output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
External supply voltage	max. 30VDC
Load current	max. 2A
Monitoring current	typ. -240µA
End-of-line resistor	27kOhm
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP42 (in connection with module box)
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approval	0086-CPD-533485

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	106	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	108	249272	Programming Unit FI700 FI700/PU

249252 Control Module 1xRel/700 FI700/M1REL

The Control Module FI700/M1REL is integrated into an ADM loop with Labor Strauss/700 protocol and provides a dry relay output for the actuation of external devices. With that, ancillary devices can be easily integrated into a fire detection system with loop technology, without monitoring the line.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two-coloured status LED indicates the activaton of the output and the fault condition
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

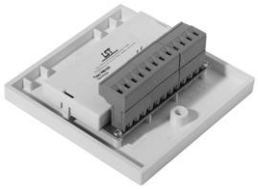
Operating voltage	supplied through loop voltage

Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP42 (in connection with module box)
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approval	0086-CPD-533485

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	106	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	108	249272	Programming Unit FI700 FI700/PU

249253 Module 1xIn 1xOut/700 FI700/M1IN1OUT

The monitor and control module FI700/M1IN1OUT is integrated into an ADM loop with Labor Strauss/700 protocol and provides both a line-monitored input for the connection of contact detectors as well as a line-monitored output for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology. The load that is connected to the output is powered by an external power supply.



In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input and output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Output:	
External supply voltage	max. 30VDC
Load current	max. 2A
Monitoring current	typ. -240µA
End-of-line resistor	27kOhm
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP42 (in connection with module box)
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approval	0086-CPD-533485

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	106	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO

108	249272	Programming Unit FI700 FI700/PU

249254 Module 1xIn 1xRel/700 FI700/M1IN1REL

The monitor and control module FI700/M1IN1REL is integrated into an ADM loop with Labor Strauss/700 protocol and provides both a line-monitored input for the connection of contact detectors as well as a dry relay output for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP42 (in connection with module box)
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approval	0086-CPD-533485

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	106	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	108	249272	Programming Unit FI700 FI700/PU

249255 Conventional Zone Module/700 FI700/M1CZ

The Conventional Zone Module FI700/M1CZ is integrated into an ADM loop with Labor Strauss/700 protocol and provides a line-monitored detector line for the connection of conventional detectors. With that, manual call points or automatic detectors in conventional technology can be easily integrated into a fire detection system with loop technology.

The capacitive line termination of the conventional line keeps the power consumption of the module low and supports the detection of a wire breakage. For resetting special detectors, the conventional zone module provides a relay output which is controlled by the fire detection control panel, independent of the condition of the conventional line.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional. The module can be powered either via the loop or by an external 24VDC supply.

Features

- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Conventional line monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Integrated in plastic housing for surface mounting

Specifications

Operating voltage	15 to 40VDC
Current consumption at 24V	typ. 500µA (loop supply)
Current consumption module LED	typ. 6mA
Line termination	typ. 4.7µF
Contact rating relay output	2A at 30VDC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP54
Dimensions L × W × H	130 × 93 × 58 (mm)
Colour	light grey, RAL 7035
Weight	210g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249256 Monitor Module Mini 1xIn/700 FI700/MM1IN

The electrical design of the Monitor Module FI700/MM1IN is identical with that of the Monitor Module FI700/M1IN, but the FI700/MM1IN is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN)

Protection class	IP30
Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249257 Control Module Mini 1xOut/700 FI700/MM1OUT

The electrical design of the Control Module FI700/MM1OUT is identical with that of the Control Module FI700/M1OUT, but the FI700/MM1OUT is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1OUT)

Protection class	IP30
Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249258 Control Module Mini 1xRel/700 FI700/MM1REL

The electrical design of the Control Module FI700/MM1REL is identical with that of the Control Module FI700/M1REL, but the FI700/MM1REL is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1REL)

Protection class	IP30
Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249259 Module Mini 1xIn 1xOut/700 FI700/MM1IN1OUT

The electrical design of the monitor and control module FI700/MM1IN1OUT is identical with that of the monitor and control module FI700/M1IN1OUT, but the FI700/MM1IN1OUT is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN1OUT)

Protection class	IP30
Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249260 Module Mini 1xIn 1xRel/700 FI700/MM1IN1REL

The electrical design of the monitor and control module FI700/MM1IN1REL is identical with that of the monitor and control module FI700/M1IN1REL, but the FI700/MM1IN1REL is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN1REL)

Protection class	IP30
Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249280 Monitor Module DIN 1xIn/700 FI700/MDR1IN

The electrical design of the Monitor Module FI700/MDR1IN is identical with that of the Monitor Module FI700/M1IN, but the FI700/MDR1IN is designed for mounting on a DIN rail.

Specifications (for further specifications, see FI700/M1IN)

Protection class	IP30
Dimensions W × H × D	25 × 79 × 91 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249281 Control Module DIN 1xOut/700 FI700/MDR1OUT

The electrical design of the Control Module FI700/MDR1OUT is identical with that of the Control Module FI700/M1OUT, but the FI700/MDR1OUT is designed for mounting on a DIN rail.

Specifications (for further specifications, see FI700/M1OUT)

Protection class	IP30
Dimensions W × H × D	25 × 79 × 91 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249282 Control Module DIN 1xRel/700 FI700/MDR1REL

The electrical design of the Control Module FI700/MDR1REL is identical with that of the Control Module FI700/M1REL, but the FI700/MDR1REL is designed for mounting on a DIN rail.

Specifications (for further specifications, see FI700/M1REL)

Protection class	IP30
Dimensions W × H × D	25 × 79 × 91 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249283 Module DIN 1xIn 1xOut/700 FI700/MDR1IN1OUT

The electrical design of the monitor and control module FI700/MDR1IN1OUT is identical with that of the monitor and control module FI700/M1IN1OUT, but the FI700/MDR1IN1OUT is designed for mounting on a DIN rail.

Specifications (for further specifications, see FI700/M1IN1OUT)

Protection class	IP30
Dimensions W × H × D	25 × 79 × 91 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249284 Module DIN 1xIn 1xRel/700 FI700/MDR1IN1REL

The electrical design of the monitor and control module FI700/MDR1IN1REL is identical with that of the monitor and control module FI700/M1IN1REL, but the FI700/MDR1IN1REL is designed for mounting on a DIN rail.

Specifications (for further specifications, see FI700/M1IN1REL)

Protection class	IP30
Dimensions W × H × D	25 × 79 × 91 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249285 Monitor Module Micro 1xIn/700 FI700/MMC1IN

The electrical design of the Monitor Module FI700/MMC1IN is identical with that of the Monitor Module FI700/M1IN, but the sealed module unit is provided with open end leads. The module can be installed, for example, in the housing of the monitored device.

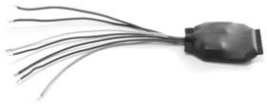
Specifications (for further specifications, see FI700/M1IN)

Protection class	IP30
Dimensions L × W × H	60 × 50 × 10 (mm, without leads)
Length of leads	approx. 120mm
Weight	25g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249286 Control Module Micro 1xOut/700 FI700/MMC1OUT

The electrical design of the Control Module FI700/MMC1OUT is identical with that of the Control Module FI700/M1OUT, but the sealed module unit is provided with open end leads. The module can be installed, for example, in the housing of the actuated device.



Specifications (for further specifications, see FI700/M1OUT)

Protection class	IP30
Dimensions L × W × H	60 × 50 × 10 (mm, without leads)
Length of leads	approx. 120mm
Weight	25g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249287 Control Module Micro 1xRel/700 FI700/MMC1REL

The electrical design of the Control Module FI700/MMC1REL is identical with that of the Control Module FI700/M1REL, but the sealed module unit is provided with open end leads. The module can be installed, for example, in the housing of the actuated device.

Specifications (for further specifications, see FI700/M1REL)

Protection class	IP30
Dimensions L × W × H	60 × 50 × 10 (mm, without leads)
Length of leads	approx. 120mm
Weight	25g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249288 Module Micro 1xIn 1xRel/700 FI700/MMC1IN1REL

The electrical design of the monitor and control module FI700/MMC1IN1REL is identical with that of the monitor and control module FI700/M1IN1REL, but the sealed module unit is provided with open end leads. The module can be installed, for example, in the housing of the monitored device.

Specifications (for further specifications, see FI700/M1IN1REL)

Protection class	IP30
Dimensions L × W × H	60 × 50 × 10 (mm, without leads)
Length of leads	approx. 120mm
Weight	25g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249289 Module 4xIn 4xRel/700 FI700/M4IN4REL

The multiple monitor and control module FI700/M4IN4REL is integrated into an ADM loop with Labor Strauss/700 protocol and provides 4 independent line-monitored inputs for the connection of contact detectors as well as four independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI700/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249290 Module 4xIn 2xOut 2xRel/700 FI700/M4IN2OUT2REL

The multiple monitor and control module FI700/M4IN2OUT2REL is integrated into an ADM loop with Labor Strauss/700 protocol and provides 4 independent line-monitored inputs for the connection of contact detectors, two line-monitored outputs as well as two independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology. The load that is connected to the monitored outputs is powered by an external power supply.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI700/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs and monitored outputs are monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

249291 Module 6xIn 2xRel/700 FI700/M6IN2REL

The multiple monitor and control module FI700/M6IN2REL is integrated into an ADM loop with Labor Strauss/700 protocol and provides 6 independent line-monitored inputs for the connection of contact detectors as well as two independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI700/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

251010 Remote Indicator/700 FI700/PA

The Remote Indicator FI700/PA is integrated into an ADM loop with Labor Strauss/700 protocol and allows the fire detection control panel to control the remote indication. As the activation can be freely parameterised in the control panel, the remote indicator can indicate the activation of any combination of detectors. With that, a common display can be implemented with simple means.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- High-power LED
- Module address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Plastic case with red cap
- Surface mounting or flush mounting on 55/60mm installation box

Specifications

Operating voltage	supply through the loop voltage
Current consumption at 24V	typ. 120µA (quiescent, normal communication) typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP42
Dimensions W × H × D	80 × 80 × 27 (mm)
Colour	white
Weight	46g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	108	249272	Programming Unit FI700 FI700/PU

11 Accessories for Series FC600/FI700

246070 Detector Base/600 FC600/BR

The Detector Base FC600/BR is used for mounting of automatic fire detectors Series FC600 in conventional technology. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	32g

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246071 Detector Base/600/Diode FC600/BRD

The Detector Base FC600/BRD is used for mounting of automatic fire detectors Series FC600 in conventional technology. If no detector is mounted in the base, the connection to the following detectors is maintained by the integrated Schottky diode. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Schottky diode to maintain through-connection of the detector line on removal of the detector
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	36g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246072 Detector Base/600/Relay FC600/BREL

The Detector Base FC600/BREL is used for mounting of automatic fire detectors Series FC600 in conventional technology. The integrated relay output is active as long as the detector remains in alarm condition. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Relay output with dry change-over contact
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Operating voltage	10 to 28VDC
Current consumption	max. 3µA (quiescent), 17mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 27 (mm)
Colour	white
Weight	58g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3

249273 Conduit Adapter for Detector Base FI700/FC600/CA

The conduit adapter facilitates the surface cabling of a Detector Base Series FC600 or FI700 (deep version) when using cable conduits. Prior to installation, the conduit adapter is attached to the detector base.

Cross-references	Page	Art.No.	Name Type
	104	246072	Detector Base/600/Relay FC600/BREL
	105	246082	Detector Base/700/Relay FI700/BREL
	105	246081	Detector Base/700 FI700/BD

246080 Detector Base/700 FI700/B

The Detector Base FI700/B is designed to accommodate intelligent fire detectors Series FI700 for use on ADM loops with Labor Strauss/700 protocol. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	36g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246081 Detector Base/700 FI700/BD

The Detector Base FI700/BD is designed to accommodate intelligent fire detectors Series FI700 for use on ADM loops with Labor Strauss/700 protocol. The deep base is suitable for indoor surface mounting and can be used in installations with thick cables.

Features

- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 27 (mm)
Colour	white
Weight	46g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246082 Detector Base/700/Relay FI700/BREL

The Detector Base FI700/BREL is designed to accommodate intelligent fire detectors Series FI700 for use on ADM loops with Labor Strauss/700 protocol. The integrated relay output is activated through the remote output of the detector. The base is suitable for indoor surface mounting.

Features

- Multi-wire terminal with secure screw fitting
- Relay output with dry change-over contact
- Mechanical theft protection of detector

Specifications

Operating voltage	18 - 30VDC (supplied through loop voltage)
Current consumption	typ. 2µA (quiescent), 15mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +50°C
Relative humidity	5 - 85% (no condensation)
Dimensions Ø × H	110 × 27 (mm)
Colour	white
Weight	58g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	79	251003	Remote Indicator PA58-3

249274 Module Box 41mm/700/Knock-out FI700/MBD/KO

The module box is designed for surface mounting of a module Series FI700 in case of surface cabling by means of cable conduits or thick cables. The module box is prepared for the use of PG screw connections. At the bottom of the box there is an auxiliary terminal for easier wiring.

Specifications

Dimensions L × W × H	87 × 87 × 52 (mm)
Weight	140g

Cross-references	Page	Art.No.	Name Type
	92	249251	Control Module 1xOut/700 FI700/M1OUT
	92	249252	Control Module 1xRel/700 FI700/M1REL
	93	249253	Module 1xIn 1xOut/700 FI700/M1IN1OUT
	94	249254	Module 1xIn 1xRel/700 FI700/M1IN1REL
	91	249250	Monitor Module 1xIn/700 FI700/M1IN

249270 Module Box 30mm/700 FI700/MB

The module box is designed for surface mounting of a module Series FI700.

Specifications

Dimensions L × W × H	87 × 87 × 30 (mm)
Weight	72g

Cross-references	Page	Art.No.	Name Type
	92	249251	Control Module 1xOut/700 FI700/M1OUT
	92	249252	Control Module 1xRel/700 FI700/M1REL
	93	249253	Module 1xIn 1xOut/700 FI700/M1IN1OUT
	94	249254	Module 1xIn 1xRel/700 FI700/M1IN1REL
	91	249250	Monitor Module 1xIn/700 FI700/M1IN

249271 Module Box 52mm/700 FI700/MBD

The module box is designed for surface mounting of a module Series FI700 in case of surface cabling by means of cable conduits or thick cables. At the bottom of the box there is an auxiliary terminal for easier wiring.

Specifications

Dimensions L × W × H	87 × 87 × 52 (mm)
Weight	130g

Cross-references	Page	Art.No.	Name Type
	92	249251	Control Module 1xOut/700 FI700/M1OUT
	92	249252	Control Module 1xRel/700 FI700/M1REL
	93	249253	Module 1xIn 1xOut/700 FI700/M1IN1OUT
	94	249254	Module 1xIn 1xRel/700 FI700/M1IN1REL
	91	249250	Monitor Module 1xIn/700 FI700/M1IN

244050 Duct Detector Housing/700 FI700/DDH

The Duct Detector FI700/DDH monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the combined air inlet and air escape pipe, directed to an optical smoke detector, and is released again into the ventilation duct. An Optical Smoke Detector Series FC600 or Series FI700 can be installed in the duct detector housing.

For the adaptation to the ventilation duct, 3 air inlet pipes with lengths of 0.6m, 1.5m and 2.8m are available.

Features

- Transparent cover for optical recognition of detector activation
- Easy installation thanks to combined air inlet and air escape pipe

Specifications

Wind speed	0.5m/s - 20m/s
Dimensions L × W × H	180 × 183 × 235 (mm, without sampling tube)
Colour	blue
Weight	700g (without detector and sampling tube)

Cross-references	Page	Art.No.	Name Type
	107	244051	Duct Detector Pipe/700/-0.6m FI700/DDH/TV-0,6
	107	244052	Duct Detector Pipe/700/0.6-1.5m FI700/DDH/TV-1,5
	107	244053	Duct Detector Pipe/700/1.5-2.8m FI700/DDH/TV-2,8
	85	241070	Optical Smoke Detector/600 FC600/O
	88	241080	Optical Smoke Detector/700 FI700/O

244051 Duct Detector Pipe/700/-0.6m FI700/DDH/TV-0,6

The combined air inlet and air escape pipe is designed for use with the Duct Detector FI700/DDH and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 0.6m and can be cut to the desired length.

Length 0.6m

Cross-references	Page	Art.No.	Name Type
	107	244050	Duct Detector Housing/700 FI700/DDH

244052 Duct Detector Pipe/700/0.6-1.5m FI700/DDH/TV-1,5

The combined air inlet and air escape pipe is designed for use with the Duct Detector FI700/DDH and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 1.5m and can be cut to the desired length.

Length 1.5m

Cross-references	Page	Art.No.	Name Type
	107	244050	Duct Detector Housing/700 FI700/DDH

244053 Duct Detector Pipe/700/1.5-2.8m FI700/DDH/TV-2,8

The combined air inlet and air escape pipe is designed for use with the Duct Detector FI700/DDH and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 2.8m and can be cut to the desired length.

Length 2.8m

Cross-references	Page	Art.No.	Name Type
	107	244050	Duct Detector Housing/700 FI700/DDH

249272 Programming Unit FI700 FI700/PU

By means of the Programming Unit FI700/PU, the physical loop address of detectors and modules Series FI700 is set. In addition, significant parameters of the detector or module, such as the device type, the default analogue value, the production date or the level of contamination of an optical smoke detector, can be read out and indicated on the display of the unit.

The programming unit has an integrated detector base for the accommodation of an automatic detector as well as a cable for the connection of a manual call point or module. The desired loop address is selected by means of two arrow keys and programmed into the inserted detector or into the connected module by pressing the confirmation button.

Specifications

Power supply	9V battery
Battery lifespan	approx. 4 years (unit switched off) approx. 30 hours (unit switched on permanently)
Dimensions L × W × H	210 × 115 × 68 (mm)
Weight	310g (incl. battery)

12 Conventional Detectors Series 300/ECO1000

241040 Optical Smoke Detector/300 2351E

The Optical Smoke Detector 2351E operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been set by means of an S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features

- Individual detector addressing via Address Module NG58-1 or programming of the detector
- Response sensitivity can be set to 3 levels (low-medium-high)
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 32.5 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202012 0832-CPD-0059

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	147	246111	Programming and Test Unit/300 S300RPTU
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

148	246112	Satellite Progr. And Test Unit S300SAT
147	246113	Zonal Display Unit/300 S300ZDU

241041 Optical-Thermal Detector/300 2351TEM

The Optical-Thermal Detector 2351TEM operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise temperature sensor according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been set by means of an S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features

- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Response sensitivity can be set to 3 levels (low-medium-high)
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202018 0832-CPD-0060

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	147	246111	Programming and Test Unit/300 S300RPTU
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU
	148	246112	Satellite Progr. And Test Unit S300SAT
	147	246113	Zonal Display Unit/300 S300ZDU

242040 Thermal RoR Detector/300/A1R 5351E

The Thermal RoR Detector 5351E reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been set by means of an S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, detector address as well as date of latest maintenance can be scanned via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202014 0832-CPD-0062

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	147	246111	Programming and Test Unit/300 S300RPTU
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU
	148	246112	Satellite Progr. And Test Unit S300SAT
	147	246113	Zonal Display Unit/300 S300ZDU

242042 Thermal Max Detector/300/A2S 5351TE

The Thermal Max Detector 5351TE reacts to a maximum temperature of 58°C according to EN 54-5, Class A2S. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

Each detector can be assigned an address for rapid localisation in case of an alarm either by installation of an Address Module NG58-1 in the detector base, or by programming of the detector with the Programming and Test Unit S300RPTU. In case the detector is addressed by the NG58-1, the detector address and an assigned detector text are displayed directly at the fire detection control panel, provided that the control panel supports these functions. If the detector address has been set by means of an S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- Individual detector identification with the Address Module NG58-1 or the Programming and Test Unit S300RPTU
- Function testing possible by test activation via the Programming and Test Unit S300RPTU or the Remote Test Unit ECO1000RTU
- Detector condition, detector address and date of the last maintenance can be read out with the Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	LPCB 199n/14 0832-CPD-0063

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	147	246111	Programming and Test Unit/300 S300RPTU
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU
	148	246112	Satellite Progr. And Test Unit S300SAT
	147	246113	Zonal Display Unit/300 S300ZDU

242041 Thermal Max Detector/300/BS 4351E

The Thermal Max Detector 4351E reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed

directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been set by means of an S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features
- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, detector address as well as date of latest maintenance can be read out via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	78°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	VdS G202016 0832-CPD-0061

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	147	246111	Programming and Test Unit/300 S300RPTU
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU
	148	246112	Satellite Progr. And Test Unit S300SAT
	147	246113	Zonal Display Unit/300 S300ZDU

241045 Optical Smoke Detector/1000 ECO1003

The Optical Smoke Detector ECO1003 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

Features
- Output for external remote indicator
- Insect screen
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-30°C to +70°C

Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 32.5 (mm)
Colour	white
Weight	75g
Approvals	VdS G201060
	0832-CPD-0064

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	141	246140	Detector Base/1000 ECO1000BR1000
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

241046 Optical-Thermal Detector/1000 ECO1002

The Optical-Thermal Detector ECO1002 operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise temperature sensor according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- Individual detector addressing by installing an optional Address Module NG58-1
- Drift compensation
- Output for external remote indicator
- Insect screen
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	75g
Approvals	VdS G201067
	0832-CPD-0065

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	141	246140	Detector Base/1000 ECO1000BR1000
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

242047 Thermal Max Detector/1000/BS ECO1004T

The Thermal Max Detector ECO1004T reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features
- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 78°C
Operating temperature	max. +60°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approvals	VdS G204042 0832-CPD-0068

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	141	246140	Detector Base/1000 ECO1000BR1000
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

242045 Thermal RoR Detector/1000/A1R ECO1005

The Thermal RoR Detector ECO1005 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features
- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)

Colour	white
Weight	70g
Approvals	VdS G201016
	0832-CPD-0066

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	141	246140	Detector Base/1000 ECO1000BR1000
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

242046 Thermal Max Detector/1000/A2S ECO1005T

The Thermal Max Detector ECO1005T reacts to a maximum temperature of 58°C according to EN 54-5, Class A2S. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 58°C
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approvals	VdS G201073
	0832-CPD-0067

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	141	246140	Detector Base/1000 ECO1000BR1000
	79	251003	Remote Indicator PA58-3
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

13 Analog Detectors and Modules Series 200/500

241999T Detector Series 200AP, Overview

The Detector Series 200AP includes a range of automatic fire detectors which represent the latest state of the fire alarm technology. The detectors are connected to a Fire Detection Control Panel Series BC216 via the ADM loop with System Sensor/200 protocol. Thanks to the extended address range, up to 159 detectors and 159 modules can be addressed.

Each detector is available either with or without integrated dual-isolator. The isolator interrupts the loop in the event of a short circuit. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

The detectors and detector bases are available in white or cream (only without integrated isolator). Thanks to the attractive design, effective fire protection can harmonise with modern and timeless architecture.

The detectors are accommodated in the Detector Base B501AP. A Detector Base B501 can be used, but in the case of detectors with integrated isolator, the isolator does not work.

	Colour: white				Colour: cream	
	With Isolator		Without Isolator		Without Isolator	
Type of Detector	Part No.	Type	Part No.	Type	Part No.	Type
Optical Smoke Detector	241110	ND22051EI	241111	ND22051E	241047	ND22051E-IV
Optical/Thermal Detector	241116	DV22051TEI	241117	DV22051TE	241048	DV22051TE-IV
Rate of Rise Heat Detector 58°C, A1R	242110	52051REI	242111	52051RE	242090	52051RE-IV
Maximum Heat Detector 58°C, A1S	242112	52051EI	242113	52051E	242091	52051E-IV
Maximum Heat Detector 78°C, BS	242114	52051HTEI	242115	52051HTE	242092	52051HTE-IV
3-Criteria Detector PTIR	241118	22051TLEI	241119	22051TLE	241053	22051TLE-IV
4-Criteria Detector COPTIR	---	---	241120	2251CTLE	241051	2251CTLE-IV

241110 Optical Smoke Detector/200APISM ND22051EI

The Optical Smoke Detector ND22051EI operates with an optical sensing chamber based on the principle of scattered light. The new design of the sensing chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Ambient temperature	-30°C to +70°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 45 (mm)
Colour	white
Weight	97g
Approvals	VdS G209015
	0786-CPD-20652

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241111 Optical Smoke Detector/200AP ND22051E

The design of the Optical Smoke Detector ND22051E is identical with that of the Optical Smoke Detector ND22051EI, but the ND22051E is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see ND22051EI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G209021
	0786-CPD-20658

241047 Optical Smoke Detector/200AP/Ivory ND22051E-IV

The design of the Optical Smoke Detector ND22051E-IV is identical with that of the Optical Smoke Detector ND22051E, but the ND22051E-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see ND22051EI)

Current consumption	max. 220µA (normal communication)
Colour	cream
Approvals	VdS G209021
	0786-CPD-20658

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241050 Optical Laser Smoke Detector/200 7251

The Optical Laser Smoke Detector 7251 operates with an optical sensing chamber based on the laser light principle. The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting.

Thanks to its high response sensitivity, this detector can be used to realise a wide range of specific tasks, common optical smoke detectors cannot cope with. Depending on the detection task, the individual response sensitivity of the detector is set in 9 steps between 0.03%/m and 3.3%/m, via the fire detection control panel. An optional pre-alarm can be activated 2 sensitivity levels before reaching the alarm level.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

Features
- Constant sensitivity
- 2 decadic rotary switches for setting the address from 01 to 99
- Output for external remote indicator
- Mechanical theft protection
- Insect screen
- Functionality check by means of test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 330µA (quiescent)
Ambient temperature	-10°C to +50°C
Relative humidity	10 to 93% (no condensation)
Air velocity	max. 20m/s
Dimensions Ø × H	103 × 42 (mm)
Colour	cream
Weight	159g
Approvals	VdS G202051 0832-CPD-0192

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	146	246013	Isolator Detector Base/500/200 B524IEFT-1
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241116 Optical-Thermal Detector/200APISM DV22051TEI

The Optical-Thermal Detector DV22051TEI contains both an optical sensing chamber based on the principle of scattered light as well as a thermocouple for the detection of heat. The new design of the optical sensing chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The rate-of-rise temperature sensor corresponds to EN 54-5, Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting. In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 2.2%/m and 5.8%/m according to the application. A thermal-only operation of the

detector is also possible. In this mode, the detector can only be used up to a room height of 7.5m.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	99g
Approvals	VdS G209014
	0786-CPD-20651

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241117 Optical-Thermal Detector/200AP DV22051TE

The design of the Optical-Thermal Detector DV22051TE is identical with that of the Optical-Thermal Detector DV22051TEI, but the DV22051TE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see DV22051TEI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G209020
	0786-CPD-20657

241048 Optical-Thermal Detector/200AP/Ivory DV22051TE-IV

The design of the Optical-Thermal Detector DV22051TE-IV is identical with that of the Optical-Thermal Detector DV22051TE, but the DV22051TE-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see DV22051TEI)

Current consumption	max. 220µA (normal communication)
Colour	cream
Approvals	VdS G209020
	0786-CPD-20657

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV

36	214037	Loop Interface LIF128-1
34	214021	Loop Interface LIF64-1
79	251003	Remote Indicator PA58-3

241118 Multicriteria Detector PTIR/200APISM 22051TLEI

The Multicriteria Detector 22051TLEI contains three separate detection units for three characteristics of fire: smoke, temperature and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58°C. The infrared sensor reacts to the flicker of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).

Thanks to the intelligent analysis of measured values obtained from all three detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected. Because of its characteristics, the detector is an optimum replacement for ionisation smoke detectors. The response behaviour of the multicriteria detector is similiar to that of ionisation detectors, but in contrast to ionisation detectors, the strict radiation protection regulations do not apply to the multicriteria detector, and it does not cause the high disposal costs.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 1.5%/m and 4.2%/m according to the application. In addition, the alarm activation of the detector can be accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only mode is also available.

By means of intelligent evaluation algorithms, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the optical measurement unit is kept constant for a long time – a further effective step to avoid false alarms.

The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting. Please note that the detector must not be used in the thermal-only mode if the room height exceeds 7.5m.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

For operation of the detector, a firmware version **PL149 Vx.21 or higher** is required, for parameterisation a **PARSOFT version V1.21 or higher** is necessary.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 1 to 159 by means of 2 decadic rotary switches
- Function testing by means of magnet or detector test device

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Wavelength infrared sensor	800 - 1200nm
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C (no condensation or icing)
Relative humidity	15 - 90% (no condensation)
Dimensions Ø × H	102 × 50 (mm)

Colour	white
Weight	100g
Approvals	VdS G209013
	0786-CPD-20650

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241119 Multicriteria Detector PTIR/200AP 22051TLE

The design of the Multicriteria Detector 22051TLE is identical with that of the Multicriteria Detector 22051TLEI, but the 22051TLE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 22051TLEI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G207055
	0786-CPD-20656

241053 Multicriteria Detector PTIR/200AP/Ivory 22051TLE-IV

The design of the Multicriteria Detector 22051TLE-IV is identical with that of the Multicriteria Detector 22051TLE, but the 22051TLE-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see 22051TLEI)

Current consumption	max. 220µA (normal communication)
Colour	cream
Approvals	VdS G207055
	0786-CPD-20656

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241120 Multicriteria Detector COPTIR/200AP 2251CTLE

The Multicriteria Detector 2251CTLE contains four separate detection units for the four essential characteristics of fire: smoke, temperature, carbon monoxide and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58°C. By means of the long-living carbon monoxide sensor, even slowly developing smouldering fires can be safely detected. The infrared sensor reacts to the flicker of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).

Thanks to the intelligent analysis of measured values obtained from all four detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur

(caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected.

The detector is therefore highly resistant to external influences and can effectively be used in virtually any environmental conditions.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 1.5%/m and 4.2%/m according to the application. In addition, the alarm activation of the detector can be accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only mode is also available.

By means of intelligent evaluation algorithms, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the optical measurement unit is kept constant for a long time – a further effective step to avoid false alarms.

The carbon monoxide sensor has, with 6 years, a long lifespan. The upcoming end of the lifespan can be read out during maintenance of the fire detection control panel. The end of the lifespan is indicated with a fault message.

The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting. Please note that the detector must not be used in the thermal-only mode if the room height exceeds 7.5m.

For operation of the detector, a firmware version **PL149 Vx.21 or higher** is required, for parameterisation a **PARSOFT version V1.21 or higher** is necessary.

Features

- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Two LEDs with 360° visibility indicate the activated condition
- Mechanical theft protection in the base
- Function testing by means of magnet or detector test device
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 300µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Wavelength infrared sensor	800 - 1200nm
Measurement range CO sensor	0 - 500ppm
Operating temperature	max. +45°C
Ambient temperature	-20°C to +55°C (no condensation or icing)
Relative humidity	15 - 90% (no condensation)
Dimensions Ø × H	102 × 60 (mm)
Colour	white
Weight	130g
Approvals	VdS G207054
	0832-CPD-0518

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241051 Multicriteria Detector COPTIR/200/Ivory 2251CTLE-IV

The design of the Multicriteria Detector 2251CTLE-IV is identical with that of the Multicriteria Detector 2251CTLE, but the 2251CTLE-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see 2251CTLE)

Colour	cream
Approvals	VdS G207054 0832-CPD-0518

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	146	246013	Isolator Detector Base/500/200 B524IEFT-1
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242110 Thermal RoR Detector/200APISM/A1R 52051REI

The Thermal RoR Detector 52051REI reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting up to a maximum room height of 7.5m.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Operating temperature	max. +50°C
Ambient temperature	-30°C to +80°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209018 0786-CPD-20655

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

79	251003	Remote Indicator PA58-3

242111 Thermal RoR Detector/200AP/A1R 52051RE

The design of the Thermal RoR Detector 52051RE is identical with that of the Thermal RoR Detector 52051REI, but the 52051RE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051REI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209024 0786-CPD-20661

242090 Thermal RoR Detector/200AP/A1R/Ivory 52051RE-IV

The design of the Thermal RoR Detector 52051RE-IV is identical with that of the Thermal RoR Detector 52051RE, but the 52051RE-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see 52051REI)

Current consumption	max. 190µA (normal communication)
Colour	cream
Approvals	VdS G209024 0786-CPD-20661

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242112 Thermal Max Detector/200APISM/A1S 52051EI

The Thermal Max Detector 52051EI reacts to a maximum temperature of 58°C according to EN 54-5, Class A1S. The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting up to a maximum room height of 7.5m.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	58°C
Operating temperature	max. +50°C
Ambient temperature	-30°C to +80°C

Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209016
	0786-CPD-20653

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242113 Thermal Max Detector/200AP/A1S 52051E

The design of the Thermal Max Detector 52051E is identical with that of the Thermal Max Detector 52051EI, but the 52051E is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051EI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209022
	0786-CPD-20659

242091 Thermal Max Detector/200AP/A1S/Ivory 52051E-IV

The design of the Thermal Max Detector 52051E-IV is identical with that of the Thermal Max Detector 52051E, but the 52051E-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see 52051EI)

Current consumption	max. 190µA (normal communication)
Colour	cream
Approvals	VdS G209022
	0786-CPD-20659

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242114 Thermal Max Detector/200APISM/BS 52051HTEI

The Thermal Max Detector 52051HTEI reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for use on the ADM loop with System Sensor/200 protocol and is suitable for indoor mounting up to a maximum room height of 6m.

In the event of a short circuit, the built-in dual-isolator interrupts the loop. As a result, the loop elements that are separated from the faulty loop section remain fully functional.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base

- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	78°C
Operating temperature	max. +65°C
Ambient temperature	-30°C to +80°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209017
	0786-CPD-20654

Cross-references	Page	Art.No.	Name Type
	143	246039	Detector Base/500/200AP B501AP
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242115 Thermal Max Detector/200AP/BS 52051HTE

The design of the Thermal Max Detector 52051HTE is identical with that of the Thermal Max Detector 52051HTEI, but the 52051HTE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051HTEI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209023
	0786-CPD-20660

242092 Thermal Max Detector/200AP/BS/Ivory 52051HTE-IV

The design of the Thermal Max Detector 52051HTE-IV is identical with that of the Thermal Max Detector 52051HTE, but the 52051HTE-IV is accommodated in a cream-coloured housing.

Specifications (for further specifications, see 52051HTEI)

Current consumption	max. 190µA (normal communication)
Colour	cream
Approvals	VdS G209023
	0786-CPD-20660

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

249046 Monitor Module/500/200 M503ME

The addressable compact module M503ME is used for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop with System Sensor/200 protocol.

Features

- Output for an optional LED indicator
- 2 decadic rotary switches for setting the address from 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-10°C to +60°C
Dimensions L × W × H	48 × 40 × 13 (mm)
Colour	cream
Weight	33g
Approval	VdS G296025

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249100 Monitor Module 1xSurv.In/200 M210E

The addressable module M210E is used for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) into the bi-directional communication on the ADM loop with System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- Status LED
- Monitoring of terminal connecting line for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 99
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202140

Cross-references	Page	Art.No.	Name Type
	153	249110	Base for Carrier Rail/M200 M200E-DIN
	153	249109	Base for Mounting Plate/M200 M200E-PMB
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	152	249108	Surface Mounting Box M200SMB
	154	249118	Surface Mounting Box SMB6-V0

249101 Monitor Module 2xSurv.In/200 M220E

The addressable module M220E is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop with System Sensor/200 protocol.

The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- Status LED for every input
- Monitoring of terminal connecting lines for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 99
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 600µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202140

Cross-references	Page	Art.No.	Name Type
	153	249110	Base for Carrier Rail/M200 M200E-DIN
	153	249109	Base for Mounting Plate/M200 M200E-PMB
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	152	249108	Surface Mounting Box M200SMB
	154	249118	Surface Mounting Box SMB6-V0

249102 Module 2xSurv.In 1xRel.Out/200 M221E

The addressable module M221E is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices by means of a dry relay output via the bi-directional communication on the ADM loop with System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- Separate status LED for each input and output
- Terminal connection lines of input monitored for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 99
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 660µA (quiescent)
Contact rating	2A/30VDC or 0.5A/125VAC
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202139

Cross-references	Page	Art.No.	Name Type
	153	249110	Base for Carrier Rail/M200 M200E-DIN
	153	249109	Base for Mounting Plate/M200 M200E-PMB
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	152	249108	Surface Mounting Box M200SMB
	154	249118	Surface Mounting Box SMB6-V0

249115 Monitor Module 10xSurv.In/200 IM-10

The addressable module IM-10 with 10 independent inputs serves for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop using System Sensor/200 protocol.

Features
- Status LED for every input
- Monitoring of terminal connection lines for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 99
- Mounting in a surface mounting box

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 3.5mA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	0°C to +50°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	170g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	154	249119	Mounting Chassis/Multi Modules CH-6
	153	249117	Surface Mounting Box/Multi Modules M200SMB-MM
	154	249118	Surface Mounting Box SMB6-V0

249103 Control Module 1xSurv.Out/200 M201E

The addressable module M201E is used for the activation of an external device via the bi-directional communication on the ADM loop with System Sensor/200 protocol. The external device can be triggered by means of either a line-monitored output or a dry contact. The trigger mode is set via DIL switches. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 99
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact rating	2A/30VDC
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g

Approval	VdS G202141

Cross-references	Page	Art.No.	Name Type
	153	249110	Base for Carrier Rail/M200 M200E-DIN
	153	249109	Base for Mounting Plate/M200 M200E-PMB
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	152	249108	Surface Mounting Box M200SMB
	154	249118	Surface Mounting Box SMB6-V0

249105 Control Module 1xRel.Out/200 M201E-240

The addressable module M201E-240 in a wall-mount cabinet is used for the activation of an external device by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the ADM loop with System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 99
- Module delivery includes module box (wall-mount cabinet)

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/230VAC
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	132 × 137 × 40 (mm)
Colour	cream/transparent smoke-coloured
Weight	195g
Approval	VdS G202141

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249106 Control Module 1xRel.Out-DIN/200 M201E-240-DIN

The addressable module M201E-240-DIN serves for the activation of an external device by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 99
- prepared for mounting on a DIN rail

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/230VAC
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	127 × 76 × 48 (mm)

Weight	140g
Approval	VdS G202141

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249116 Control Module 6xRel.Out/200 CR-6

The addressable module CR-6 serves for the activation of external devices by means of 6 independent dry contacts via the bi-directional communication on the ADM loop using System Sensor/200 protocol.

Features
- Status LED for every output
- 2 decadic rotary switches for setting the address from 01 to 99
- Mounting in a surface mounting box

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.5mA (quiescent)
Switching power per contact	2A/30VDC
Ambient temperature	0°C to +50°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	170g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	154	249119	Mounting Chassis/Multi Modules CH-6
	153	249117	Surface Mounting Box/Multi Modules M200SMB-MM
	154	249118	Surface Mounting Box SMB6-V0

249045 Conventional Zone Module/500/200 M512ME

The addressable module M512ME is used for the integration of conventional detectors, detectors for intrinsically safe areas and special detectors into an ADM loop with System Sensor/200 protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The conventional zone module provides a reset output for resetting special detectors. For the mounting of the module, a Surface Mounting Box SMB500 is required.

Specifications

Operating voltage	18 to 32VDC
Quiescent current cons. on loop	300µA
Line termination	3.9kOhm
Ambient temperature	-10°C to +60°C
Dimensions L × W × H	70 × 70 × 32 (mm)
Weight	142g
Approval	VdS G297009

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	155	249004	Surface Mounting Box SMB500

249104 Conventional Zone Module/200 M210E-CZ

The addressable module M210E-CZ is used for the integration of conventional detectors into an ADM loop with System Sensor/200 protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals. The module can be powered alternatively through the loop or by an external supply with 24VDC. The conventional zone module provides a reset output for resetting special detectors.

Attention: Due to the capacitive line termination, the conventional zone module must not be used for connecting intrinsically safe devices.

Features
- Status LED
- Monitoring of detector connecting line for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 99
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	15 to 30VDC
Current consumption on loop	typ. 500µA (quiescent, external voltage supply) typ. 1.5mA (quiescent, loop-supplied)
Line termination	typ. 47µF
Capacitance (line incl. detectors)	max. 2.2µF
Current consumption of detectors	max. 3mA
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Weight	110g
Approval	VdS G205144

Cross-references	Page	Art.No.	Name Type
	153	249110	Base for Carrier Rail/M200 M200E-DIN
	153	249109	Base for Mounting Plate/M200 M200E-PMB
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	152	249108	Surface Mounting Box M200SMB
	154	249118	Surface Mounting Box SMB6-V0

249112 Monitor Module 1xAnalog In/200 M510E-4-20

The Monitor Module M510E-4-20 allows the connection of any industrial sensors with a 4-20mA interface (e.g., gas detectors, flame detectors) to a fire detection system. The sensors can be connected in 2- or 3-wire technology. The Monitor Module M510E-4-20 is integrated into an ADM loop with System Sensor/200 protocol and occupies one address in the number range of detector addresses.

An external power supply is required for powering the sensor circuit. In order to protect the sensor and the module, the power supply for the sensor as well as the analogue input are provided with current limiting.

The module is designed for mounting in a Surface Mounting Box SMB500, the cover for the surface mounting box is included with the module.

Features
- Monitoring of sensor connection line for wire breakage
- Decadic rotary switches for setting the physical address in the range 01 to 99

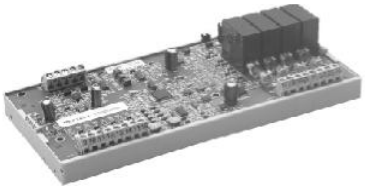
Specifications

Operating voltage	supplied through loop voltage
Current consumption on the loop	max. 700µA (normal communication)
External power supply	12 - 28VDC
Current consumption ext. supply	typ. 10mA (24V, without sensor)
Current limiting	
sensor supply	500mA (3-wire technology)
analogue input	25mA
Ambient temperature	-10°C to +60°C (no icing)
Relative humidity	10 - 95% (no condensation)
Dimensions L × W × H	107 × 121 × 32 (mm, without case cover)
Weight	100g (without case cover)

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	155	249004	Surface Mounting Box SMB500

249092 Module 4xSurv.In 4xSurv.Out/Rail MEA244-1/TR

The addressable module MEA244-1/TR provides 4 inputs and 4 outputs and is connected to a Fire Detection Control Panel Series BC216 via the ADM loop with System Sensor/200 protocol. The inputs allow for the connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and are monitored for wire breakage and short circuit. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25% during operation, the output is indicated as faulty.



The patented method of multiple monitoring provides a reliable detection of line faults or load faults. The multi module is therefore ideally suitable for the application in extinguishing systems. An optional accessory board allows for the hardware-redundant actuation of solenoid valves, according to EN 12094-1.

The module provides an integrated dual-isolator and is designed to be mounted on a DIN rail.

Features

- Separate status LED for each input and output
- Monitoring of terminal connecting lines for wire breakage and short circuit
- Monitoring of the internal resistance of the control devices as well as the line resistance of the supply line with a patented method
- Integrated self-calibration by measuring the line resistance and load resistance, initiated at a keystroke
- Monitoring of the supply voltage for low voltage
- Physical address can be set in the range 01 to 99 by means of button in combination with LED
- Mounting on a DIN rail

Specifications

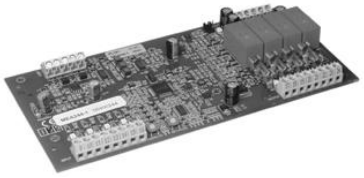
Operating voltage	20 to 30VDC
Current consumption	35mA (quiescent), max. 160mA (no load)
Current consumption on the loop	500µA
Number of outputs	4
Load current per output	max. 1.5A
Number of inputs	4

End-of-line resistance	5.6kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-5°C to +60°C
Ambient temperature control devices	+5°C to +50°C (to ensure the functioning of the fault detection)
Dimensions L × W × H	196 × 97 × 56 (mm)
Weight	310g
Patent number	AT 501 215 B1
Approval	VdS G205120

Cross-references	Page	Art.No.	Name Type
	50	218990T	Extinguishing Control Panel Series LC216, Description
	55	249097	Line-Coupler Redundance Control LKR21-1
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249095 Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E

The addressable module MEA244-1/E provides 4 inputs and 4 outputs and is connected to a Fire Detection Control Panel Series BC216 via the ADM loop with System Sensor/200 protocol. The inputs allow for the connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and are monitored for wire breakage and short circuit. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25% during operation, the output is indicated as faulty.



The patented method of multiple monitoring provides a reliable detection of line faults or load faults. The multi module is therefore ideally suitable for the application in extinguishing systems. An optional accessory board allows for the hardware-redundant actuation of solenoid valves, according to EN 12094-1.

The module provides an integrated dual-isolator and is designed to be mounted into a fire detection control panel.

Features

- Separate status LED for each input and output
- Monitoring of terminal connecting lines for wire breakage and short circuit
- Monitoring of the internal resistance of the control devices as well as the line resistance of the supply line with a patented method
- Integrated self-calibration by measuring the line resistance and load resistance, initiated at a keystroke
- Monitoring of the supply voltage for low voltage
- Physical address can be set in the range 01 to 99 by means of button in combination with LED
- Mounting in LST standard grid by means of supplied mounting spacers

Specifications

Operating voltage	20 to 30VDC
Current consumption	35mA (quiescent), max. 160mA (no load)
Current consumption on the loop	500µA
Number of outputs	4
Load current per output	max. 1.5A
Number of inputs	4
End-of-line resistance	5.6kOhm

Alarm threshold	typ. 1kOhm
Ambient temperature	-5°C to +60°C
Ambient temperature control devices	+5°C to +50°C (to ensure the functioning of the fault detection)
Dimensions L × W × H	194 × 93 × 20 (mm)
Weight	150g
Patent number	AT 501 215 B1
Approval	VdS G205120

Cross-references	Page	Art.No.	Name Type
	50	218990T	Extinguishing Control Panel Series LC216, Description
	55	249097	Line-Coupler Redundance Control LKR21-1
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249090 Position Switch/500/Pressed Idle EDS500-1/GR

The addressable module EDS500-1/GR allows for the monitoring of the position of slides, valves and similar mechanical appliances. The System Sensor/200 protocol is used for the bi-directional communication on the ADM loop. The module is located in a plastic housing and is especially durable and fail-safe, due to the use of opto-electronic components.

Features
- Normal condition when actuating element is being pressed
- Status LED
- Physical address can be set in the range 01 to 99 by means of button in combination with LED
- Mounting terminals according to DIN 912 M5

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	59 × 32 × 63 (mm)
Colour	red/black
Protection class	IP65
Weight	90g

Cross-references	Page	Art.No.	Name Type
	50	218990T	Extinguishing Control Panel Series LC216, Description
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249098 Position Switch/500/Pressed Alarm EDS500-1/GA

The addressable module EDS500-1/GA allows for the monitoring of the position of slides, valves and similar mechanical appliances. The System Sensor/200 protocol is used for the bi-directional communication on the ADM loop. The module is located in a plastic housing and is especially durable and fail-safe, due to the use of opto-electronic components.

Features
- Alarm condition when actuating element is being pressed
- Status LED
- Physical address can be set in the range 01 to 99 by means of button in combination with LED
- Mounting terminals according to DIN 912 M5

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	59 × 32 × 63 (mm)
Colour	red/black
Protection class	IP65
Weight	90g

Cross-references	Page	Art.No.	Name Type
	50	218990T	Extinguishing Control Panel Series LC216, Description
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249091 Monitor Module/Box/500 ÜMB500-1

The addressable module ÜMB500-1 allows for the integration of a contact detector (e.g., pressure switch, temperature monitor) into the bi-directional communication on the ADM loop with System Sensor/200 protocol. The module is integrated in a round, transparent plastic box and is connected both with the ADM loop and with the detector via flying leads. Since the module has no mounting mechanism of its own, it must be installed in the detector housing.

Features

- Status LED
- Physical address can be set in the range 01 to 99 by means of button in combination with LED

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions Ø × H	45 × 16 (mm)
Weight	16g

Cross-references	Page	Art.No.	Name Type
	50	218990T	Extinguishing Control Panel Series LC216, Description
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249003 Isolator Module/500/200 ISM1-2

The Isolator Module ISM1-2 is used for the connection to an ADM loop with System Sensor/200 protocol. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of the detectors and modules outside this area is ensured. For optimum availability, the detector zones on the ADM loop should be separated from each other by isolator modules.

Features

- Full operation of all standard loop elements not affected by the short circuit
- Installation in commercially available installation boxes, on a mounting bracket or a module carrier

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C

Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approval	VdS G296011

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

14 Accessories for Series 300/ECO1000/200/500

246008 Detector Base/400/300/100 B401RM

The Detector Base B401RM is used to accommodate automatic fire detectors Series 400, 300 and 100 in addressable conventional technology. The base is designed for indoor surface mounting.

Features

- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 20 (mm)
Colour	cream
Weight	55g

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	79	251003	Remote Indicator PA58-3
	151	246009	Surface Mounting Kit/400/500 SMK400
	158	249635	Trapeze Bracket TBH800-1
	152	249012	Wet Base Shroud WB1

246019 Detector Base 400/300/100 B401DGRM

The Detector Base B401DGRM is designed to accommodate automatic fire detectors Series 400, 300 and 100 in addressable conventional technology. The deep base is suitable for indoor surface mounting and can also be used with thick cables.

Features

- Multi-wire terminal with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +70°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	59g

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	79	251003	Remote Indicator PA58-3
	151	246009	Surface Mounting Kit/400/500 SMK400
	158	249635	Trapeze Bracket TBH800-1
	152	249012	Wet Base Shroud WB1

246100 Detector Base/300/Relay/Latching B324RL

The Detector Base B324RL with integrated relay output is used to accommodate automatic fire detectors Series 300 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 24VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the alarm is not reset on the fire detection control panel. Application must comply with the LST Connection of Detectors.

Features

- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Relay output with dry changeover contact
- Mechanical theft protection can be activated

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	1µA (quiescent), 25mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	127 × 29 (mm)
Colour	cream
Weight	96g

246101 Detector Base/300/Relay/Latching B312RL

The Detector Base B312RL with integrated relay output is used to accommodate automatic fire detectors Series 300 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the operating voltage has not been (shortly) interrupted.

Features

- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact
- Mechanical theft protection can be activated

Specifications

Operating voltage	8.5 to 15VDC
Current consumption	typ. 20µA (quiescent), 50mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)

Dimensions Ø × H	127 × 29 (mm)
Colour	cream
Weight	96g

246102 Detector Base/300/Relay B312NL

The Detector Base B312NL with integrated relay output is used to accommodate automatic fire detectors Series 300 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector, both the detector and the relay output are automatically reset several seconds after the fire alarm detection.

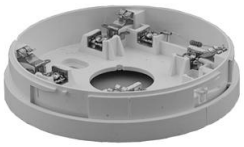
Features
- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact
- Mechanical theft protection can be activated

Specifications

Operating voltage	8.5 to 15VDC
Current consumption	typ. 20µA (quiescent), 50mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	127 × 29 (mm)
Colour	cream
Weight	96g

246140 Detector Base/1000 ECO1000BR1000

The Detector Base ECO1000BR1000 is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting.



Features
- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102.5 × 21 (mm)
Colour	white
Weight	44g

Cross-references	Page	Art.No.	Name Type
	156	249020	Address Module Conventional NG58-1
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246141 Detector Base/1000/Relay/Latching ECO1000BREL24L

The Detector Base ECO1000BREL24L with integrated relay output is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 24VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the alarm is not reset on the fire detection control panel. Application must comply with the LST Connection of Detectors.

Features

- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Relay output with dry changeover contact

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	1µA (quiescent); 30mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1

246142 Detector Base/1000/Relay/Latching ECO1000BREL12L

The Detector Base ECO1000BREL12L with integrated relay output is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the operating voltage has not been (shortly) interrupted.

Features

- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact

Specifications

Operating voltage	10 to 15VDC
Current consumption	typ. 1µA (quiescent), 25mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

246143 Detector Base/1000/Relay ECO1000BREL12NL

The Detector Base ECO1000BREL12NL with integrated relay output is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector, both the detector and the relay output are automatically reset several seconds after the fire detection.

Features

- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact

Specifications

Operating voltage	10 to 15VDC
Current consumption	typ. 20µA (quiescent), 30mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

246039 Detector Base/500/200AP B501AP

The Detector Base B501AP is designed to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting and for cable diameters up to 8mm.

Features

- Connection to the ADM loop using System Sensor/200 or 200-Advanced protocol
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated
- Label plate can be broken off

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 22 (mm)
Colour	white
Weight	39g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	150	246162	Recessed Mounting Kit/400/500 RMK400-W
	150	246161	Surface Mounting Kit/400/500 SMK400-W
	158	249635	Trapeze Bracket TBH800-1
	150	246160	Wet Base Shroud WB1-W

246038 Detector Base/500/200AP/Ivory B501AP-IV

The Detector Base B501AP-IV is designed to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting and for cable diameters up to 8mm.

Features

- Connection to the ADM loop using System Sensor/200 or 200-Advanced protocol
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated
- Label plate can be broken off

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 22 (mm)
Colour	cream
Weight	39g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	151	246009	Surface Mounting Kit/400/500 SMK400
	158	249635	Trapeze Bracket TBH800-1
	152	249012	Wet Base Shroud WB1

246163 Detector Base/500/200/Relay B524RTE-W

The Detector Base B524RTE-W is designed to accommodate fire detectors Series 200-Advanced and is suitable for indoor surface mounting. The integrated relay output is active as long as the detector remains in alarm condition. The application has to be in compliance with the LST Connection of Detectors.

Features

- Connection to the ADM loop using System Sensor/200 protocol
- Multi-wire terminal with secure screw fitting
- Relay output with dry change-over contact

Specifications

Contact rating	1A at 30VDC
Ambient temperature	-10°C to +60°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 36 (mm)
Colour	white
Weight	110g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	150	246162	Recessed Mounting Kit/400/500 RMK400-W
	150	246161	Surface Mounting Kit/400/500 SMK400-W
	150	246160	Wet Base Shroud WB1-W

246164 Detector Base/500/200/Heater B524HTR-W

The Detector Base B524HTR-W is designed to accommodate optical smoke detectors Series 200-Advanced. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (e.g., loading ramps, cable ducts). The heating elements are powered by an external power supply.

Features

- Connection to the ADM loop using System Sensor/200 protocol
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage for heating	20 to 30VAC/DC
Current consumption at 24V	typ. 80mA
Ambient temperature	-30°C to +60°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	102 × 35 (mm)
Colour	white
Weight	90g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	150	246162	Recessed Mounting Kit/400/500 RMK400-W
	150	246161	Surface Mounting Kit/400/500 SMK400-W
	150	246160	Wet Base Shroud WB1-W

246016 Detector Base/500/200/Relay B524RTE

The Detector Base B524RTE is designed to accommodate fire detectors Series 500, 200-Advanced and 200 and is suitable for indoor surface mounting. The integrated relay output is active as long as the detector remains in alarm condition. The application has to be in compliance with the LST Connection of Detectors.

Features

- Connection to the ADM loop using System Sensor/200 protocol
- Multi-wire terminal with secure screw fitting
- Relay output with dry changeover contact

Specifications

Contact rating	1A at 30VDC
Ambient temperature	-10°C to +60°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 36 (mm)
Colour	cream
Weight	110g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	151	246009	Surface Mounting Kit/400/500 SMK400
	152	249012	Wet Base Shroud WB1

246013 Isolator Detector Base/500/200 B524IEFT-1

The Detector Base B524IEFT-1 with integrated dual-isolator is used to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting.

If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all other connected detectors and modules is guaranteed. For optimum availability, the detector zones on the ADM loop should be separated from each other by isolator modules.

Features

- Connection to the ADM loop using System Sensor/200 protocol
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Current consumption	max. 100µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	70g
Approval	VdS G200100

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	79	251003	Remote Indicator PA58-3
	151	246009	Surface Mounting Kit/400/500 SMK400
	158	249635	Trapeze Bracket TBH800-1
	152	249012	Wet Base Shroud WB1

246018 Detector Base/500/200/Heater B524HTR

The Detector Base B524HTR is designed to accommodate optical smoke detectors Series 500, 200-Advanced and 200. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (e.g., loading ramps, cable ducts). The heating elements are powered by an external power supply.

Features

- Connection to the ADM loop using System Sensor/200 protocol
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage for heating	20 to 30VAC/DC
Current consumption at 24V	typ. 80mA
Ambient temperature	-30°C to +60°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	102 × 35 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	151	246010	Recessed Mounting Kit/400/500 RMK400
	79	251003	Remote Indicator PA58-3
	151	246009	Surface Mounting Kit/400/500 SMK400
	152	249012	Wet Base Shroud WB1

246113 Zonal Display Unit/300 S300ZDU

The Zonal Display Unit S300ZDU allows for the numerical display of the activated detectors' addresses on a conventional detector line built from Series 300 fire detectors. If more than one detector is in the alarm state, the addresses are automatically scrolled. In addition, the zonal display unit detects and displays wiring errors between control panel and zonal display unit as well as short circuits in the detector line.

Features
- Multiple alarm display
- 4-digit display
- Remote installation (always before the first detector)

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 100µA (own consumption without detector)
Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Dimensions W × H × D	137 × 132 × 40 (mm)
Colour	cream
Weight	170g

Cross-references	Page	Art.No.	Name Type
	110	241041	Optical-Thermal Detector/300 2351TEM
	109	241040	Optical Smoke Detector/300 2351E
	112	242042	Thermal Max Detector/300/A2S 5351TE
	112	242041	Thermal Max Detector/300/BS 4351E
	111	242040	Thermal RoR Detector/300/A1R 5351E

246111 Programming and Test Unit/300 S300RPTU

The hand-held programming device is used for setting and reading the parameters of System Sensor Series 300 detectors. The device can exchange data with a Series 300 detector either over short distances or, combined with the Programming and Test Unit S300SAT, over distances up to 4.5m. In the satellite unit for remote programming, date and time can be set. This date information can be stored as timestamp of the latest maintenance date in the maintained detector.

Features
- Setting of date and time in the device
- Setting of the detector address
- Setting of the response sensitivity (only with 2351E and 2351TEM)
- Setting of the maintenance date
- Display of the detector contamination (only with 2351E and 2351TEM)
- Display of the detector status (separately for smoke and temperature value with 2351TEM)
- Display of the latest maintenance date
- Function test (test activation) of Series 300 detectors

Specifications

Operating voltage	4.5VDC (3 × 1.5V type AAA batteries)
Ambient temperature	-10°C to +50°C

Relative humidity	5 to 95% (no condensation)
Dimensions L × W × H	128 × 58 × 20 (mm)
Weight	100g

Cross-references	Page	Art.No.	Name Type
	110	241041	Optical-Thermal Detector/300 2351TEM
	109	241040	Optical Smoke Detector/300 2351E
	112	242042	Thermal Max Detector/300/A2S 5351TE
	112	242041	Thermal Max Detector/300/BS 4351E
	111	242040	Thermal RoR Detector/300/A1R 5351E

246112 Satellite Progr. And Test Unit S300SAT

The satellite unit for remote programming is used to exchange data between the Programming and Test Unit S300RPTU and a System Sensor Series 300 detector. The satellite unit is attached to the ready-to-operate detector. If necessary, the satellite unit can also be applied with a Telescopic Pole. Prior to first operation, the satellite unit must be synchronised with the programming and test unit.

Features
- Locks onto the detector in a defined position
- Switch and status LED visible from the outside
- Batteries included in the device

Specifications

Operating voltage	18VDC (2 × 9V block batteries)
Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	106 × 105 (mm)
Colour	black
Weight	230g (incl. batteries)

Cross-references	Page	Art.No.	Name Type
	349	249054	Extension Pole SOLO101
	110	241041	Optical-Thermal Detector/300 2351TEM
	109	241040	Optical Smoke Detector/300 2351E
	348	249053	Telescopic Pole SOLO100
	112	242042	Thermal Max Detector/300/A2S 5351TE
	112	242041	Thermal Max Detector/300/BS 4351E
	111	242040	Thermal RoR Detector/300/A1R 5351E

246150 Remote Test Unit/300/1000 ECO1000RTU

The hand-held laser test unit is used for easy test activation of System Sensor Series 300 and ECO1000 detectors.

Features
- Range of several metres
- Simple handling due to visible laser beam

Specifications

Operating voltage	6VDC (battery type V11GA)
Dimensions L × W × H	82 × 30 × 15 (mm)
Weight	30g

Cross-references	Page	Art.No.	Name Type
	149	249212	Battery For ECO1000RTU 6V-V11GA
	114	241046	Optical-Thermal Detector/1000 ECO1002
	110	241041	Optical-Thermal Detector/300 2351TEM
	113	241045	Optical Smoke Detector/1000 ECO1003
	109	241040	Optical Smoke Detector/300 2351E
	116	242046	Thermal Max Detector/1000/A2S ECO1005T
	115	242047	Thermal Max Detector/1000/BS ECO1004T
	112	242042	Thermal Max Detector/300/A2S 5351TE
	112	242041	Thermal Max Detector/300/BS 4351E
	115	242045	Thermal RoR Detector/1000/A1R ECO1005
	111	242040	Thermal RoR Detector/300/A1R 5351E

249212 Battery For ECO1000RTU 6V-V11GA

The 6V battery is used for supply of the Remote Test Unit ECO1000RTU.

ATTENTION: the remote test unit exists in two different designs, which require different types of batteries. Please pay attention to the type and dimensions of the battery when you order.

Features
- High quality alkaline manganese battery
- Low self-discharge
- Long lifespan

Specifications
Dimensions L × Ø 16 × 10 (mm)

Cross-references	Page	Art.No.	Name Type
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

249214 Battery For ECO1000RTU 6V-476A

The 6V battery is used for supply of the Remote Test Unit ECO1000RTU.

ATTENTION: the remote test unit exists in two different designs, which require different types of batteries. Please pay attention to the type and dimensions of the battery when you order.

Features
- High quality alkaline manganese battery
- Low self-discharge
- Long lifespan

Specifications
Dimensions L × Ø 25 × 13 (mm)

Cross-references	Page	Art.No.	Name Type
	148	246150	Remote Test Unit/300/1000 ECO1000RTU

246161 Surface Mounting Kit/400/500 SMK400-W

The supplement base is needed in addition to the detector bases B501AP, B524HTR-W or B524RTE-W when they are surface mounted using cable conduits or thick cables. The supplement base is prepared for the use of PG screw connections.

Specifications

Dimensions Ø × H	103 × 34 (mm)
Colour	white
Weight	90g

Cross-references	Page	Art.No.	Name Type
	145	246164	Detector Base/500/200/Heater B524HTR-W
	144	246163	Detector Base/500/200/Relay B524RTE-W
	143	246039	Detector Base/500/200AP B501AP

246162 Recessed Mounting Kit/400/500 RMK400-W

The mounting accessory is needed as supplement to the detector bases B501AP, B524HTR-W or B524RTE-W when they are flush mounted in false ceilings.

Specifications

Dimensions Ø × H	144 × 40 (mm)
Colour	white
Weight	90g

Cross-references	Page	Art.No.	Name Type
	145	246164	Detector Base/500/200/Heater B524HTR-W
	144	246163	Detector Base/500/200/Relay B524RTE-W
	143	246039	Detector Base/500/200AP B501AP

246160 Wet Base Shroud WB1-W

The Wet Base Shroud WB1-W is used for mounting the detector bases B501AP, B524HTR-W or B524RTE-W in damp locations. The wet base shroud is prepared for the use of PG screw connections.

Specifications

Dimensions Ø × H	105 × 70 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.No.	Name Type
	145	246164	Detector Base/500/200/Heater B524HTR-W
	144	246163	Detector Base/500/200/Relay B524RTE-W
	143	246039	Detector Base/500/200AP B501AP

246009 Surface Mounting Kit/400/500 SMK400

The supplement base is needed in addition to the detector bases B501AP-IV, B401RM, B401DGRM, B524IEFT-1, B524HTR or B524RTE for surface mounting using cable conduits or thick cables. The supplement base is prepared for the use of PG screw connections.

Specifications

Dimensions Ø × H	103 × 34 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.No.	Name Type
	139	246008	Detector Base/400/300/100 B401RM
	146	246018	Detector Base/500/200/Heater B524HTR
	145	246016	Detector Base/500/200/Relay B524RTE
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	139	246019	Detector Base 400/300/100 B401DGRM
	146	246013	Isolator Detector Base/500/200 B524IEFT-1

246010 Recessed Mounting Kit/400/500 RMK400

The mounting accessory is needed as supplement to the detector bases of type B501AP-IV, B401RM, B401DGRM, B524IEFT-1, B524HTR or B524RTE when they are flush mounted in false ceilings.

Specifications

Dimensions Ø × H	144 × 40 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.No.	Name Type
	139	246008	Detector Base/400/300/100 B401RM
	146	246018	Detector Base/500/200/Heater B524HTR
	145	246016	Detector Base/500/200/Relay B524RTE
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	139	246019	Detector Base 400/300/100 B401DGRM
	146	246013	Isolator Detector Base/500/200 B524IEFT-1

249012 Wet Base Shroud WB1

The Wet Base Shroud WB1 is used for mounting the detector bases B401RM, B401DGRM, B501AP-IV, B524IEFT-1, B524HTR or B524RTE in damp locations. The wet base shroud is prepared for the use of PG screw connections.

Specifications

Dimensions Ø × H	105 × 70 (mm)
Colour	cream
Weight	100g

Cross-references	Page	Art.No.	Name Type
	139	246008	Detector Base/400/300/100 B401RM
	146	246018	Detector Base/500/200/Heater B524HTR
	145	246016	Detector Base/500/200/Relay B524RTE
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	139	246019	Detector Base 400/300/100 B401DGRM
	146	246013	Isolator Detector Base/500/200 B524IEFT-1

249108 Surface Mounting Box M200SMB

The plastic mounting box is designed for the surface mounting of a module Series M200.

Specifications

Dimensions L × W × H	132 × 137 × 48 (mm)
Colour	cream/transparent smoke-coloured
Weight	140g

Cross-references	Page	Art.No.	Name Type
	130	249103	Control Module 1xSurv.Out/200 M201E
	133	249104	Conventional Zone Module/200 M210E-CZ
	129	249102	Module 2xSurv.In 1xRel.Out/200 M221E
	128	249100	Monitor Module 1xSurv.In/200 M210E
	129	249101	Monitor Module 2xSurv.In/200 M220E

249111 Surface Mounting Box For M200 M200SMB-KO

The plastic mounting box is designed for the surface mounting of a module Series M200.
A protected cable entrance is possible with the help of 5 integrated cable glands.

Specifications

Dimensions L × W × H	132 × 137 × 48 (mm)
Colour	cream/transparent smoke-coloured
Weight	250g

Cross-references	Page	Art.No.	Name Type
	130	249103	Control Module 1xSurv.Out/200 M201E
	133	249104	Conventional Zone Module/200 M210E-CZ
	129	249102	Module 2xSurv.In 1xRel.Out/200 M221E
	128	249100	Monitor Module 1xSurv.In/200 M210E

129	249101	Monitor Module 2xSurv.In/200 M220E

249109 Base for Mounting Plate/M200 M200E-PMB

The mounting base M200E-PMB is attached onto a Series M200 module. The module can thus be mounted upright on every even surface.

Specifications

Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.No.	Name Type
	130	249103	Control Module 1xSurv.Out/200 M201E
	133	249104	Conventional Zone Module/200 M210E-CZ
	129	249102	Module 2xSurv.In 1xRel.Out/200 M221E
	128	249100	Monitor Module 1xSurv.In/200 M210E
	129	249101	Monitor Module 2xSurv.In/200 M220E

249110 Base for Carrier Rail/M200 M200E-DIN

The mounting base M200E-DIN is attached onto a Series M200 module. The module can thus be mounted (snapped on) upright on standardised 35mm DIN rails.

Specifications

Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.No.	Name Type
	130	249103	Control Module 1xSurv.Out/200 M201E
	133	249104	Conventional Zone Module/200 M210E-CZ
	129	249102	Module 2xSurv.In 1xRel.Out/200 M221E
	128	249100	Monitor Module 1xSurv.In/200 M210E
	129	249101	Monitor Module 2xSurv.In/200 M220E

249117 Surface Mounting Box/Multi Modules M200SMB-MM

The powder coated sheet steel mounting box is designed to accommodate a System Sensor multi module IM-10 or CR-6. On both long sides, 7 knock-outs (Ø 19mm) for PG-screw connections are available.

Specifications

Dimensions L × W × H	285 × 225 × 62 (mm)
Colour	cream
Weight	2kg

Cross-references	Page	Art.No.	Name Type
	132	249116	Control Module 6xRel.Out/200 CR-6
	130	249115	Monitor Module 10xSurv.In/200 IM-10

249118 Surface Mounting Box SMB6-V0

The surface mounting box is made of plastic and is designed to accommodate up to 6 ADM modules Series M200 or one multi module IM-10 or CR-6. The modules Series M200 are plugged into the fastening devices of the box, a multi module is screwed onto the plastic bolts of the housing by means of the included screws. Thanks to the transparent cover of the mounting box, the status LED as well as the address switches of the modules are visible.

Specifications

Dimensions L × W × H	245 × 180 × 100 (mm)
Colour	cream/transparent smoke-coloured

Cross-references	Page	Art.No.	Name Type
	130	249103	Control Module 1xSurv.Out/200 M201E
	132	249116	Control Module 6xRel.Out/200 CR-6
	133	249104	Conventional Zone Module/200 M210E-CZ
	129	249102	Module 2xSurv.In 1xRel.Out/200 M221E
	130	249115	Monitor Module 10xSurv.In/200 IM-10
	128	249100	Monitor Module 1xSurv.In/200 M210E
	129	249101	Monitor Module 2xSurv.In/200 M220E

249119 Mounting Chassis/Multi Modules CH-6

The mounting bracket is made of sheet steel and is used for mounting of up to 6 multi modules IM-10 or CR-6. The modules are put into the slots of the mounting bracket and fastened by means of screws or threaded bolts. The mounting bracket is designed for installation in a switch cabinet.

Specifications

Dimensions W × H × D	483 × 192 × 55 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	132	249116	Control Module 6xRel.Out/200 CR-6
	130	249115	Monitor Module 10xSurv.In/200 IM-10

249004 Surface Mounting Box SMB500

The plastic mounting box is designed for the surface mounting of a module Series 500.

Specifications

Dimensions W × H × D	125 × 124 × 55 (mm)
Colour	cream
Weight	155g

Cross-references	Page	Art.No.	Name Type
	132	249045	Conventional Zone Module/500/200 M512ME
	133	249112	Monitor Module 1xAnalog In/200 M510E-4-20
	208	228007	Protocol Interface/200 IST200

249014 PSU For Detector Heater MH-TR1

The power supply unit serves for generating the heating voltage for the detector heaters MH500-1, MH60-1 and MH95-1.

Features

- Power supply for up to ten detector heaters
- Optical indication for operation and fault
- Monitored heating voltage, the malfunction can be forwarded to the fire detection control panel as fault message
- Wall-mount cabinet for surface mounting

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Power consumption	200VA
Heating voltage	40VAC
Output current	5A
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 155 (mm)
Colour	light grey, RAL 7035
Weight	9kg

Cross-references	Page	Art.No.	Name Type
	156	249027	Detector Base/500/200/Heater MH500-1
	180	246032	Detector Heater/60/65 MH60-1
	180	246033	Detector Heater/XP95/Disc MH95-1

249027 Detector Base/500/200/Heater MH500-1

The mounting base with included heating is used for the application of System Sensor Series 500 or 200 automatic smoke detectors in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and connection terminals with a remote indicator are mounted together on a mounting plate.

Features

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the connection terminals

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	119	241050	Optical Laser Smoke Detector/200 7251
	118	241047	Optical Smoke Detector/200AP/Ivory ND22051E-IV
	155	249014	PSU For Detector Heater MH-TR1

249020 Address Module Conventional NG58-1

The electronic component is needed for the application in addressable conventional technology and serves for the individual or group identification of Series FC600, 100, 300 and ECO1000 automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.

Features

- Double-digit indication of the detector number and parameterised clear text on the display of a compatible fire detection control panel
- Detector number setting from 0 to 63
- Open-collector output for triggering a remote indicator
- Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	32 × 19 × 5 (mm) without leads
Weight	10g

Cross-references	Page	Art.No.	Name Type
	141	246140	Detector Base/1000 ECO1000BR1000
	139	246008	Detector Base/400/300/100 B401RM
	103	246070	Detector Base/600 FC600/BR
	139	246019	Detector Base 400/300/100 B401DGRM

249044 Detector Mounting Bracket MMW1-1

The metal bracket is made of galvanised steel sheet and serves for the lateral mounting of an automatic fire detector, for example in inserted floors, elevator shafts or shelves. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications

Dimensions L × W × H	120 × 120 × 40 (mm)
Weight	300g

Cross-references	Page	Art.No.	Name Type
	142	246141	Detector Base/1000/Relay/Latching ECO1000BREL24L
	141	246140	Detector Base/1000 ECO1000BR1000
	139	246008	Detector Base/400/300/100 B401RM
	146	246018	Detector Base/500/200/Heater B524HTR
	145	246164	Detector Base/500/200/Heater B524HTR-W
	145	246016	Detector Base/500/200/Relay B524RTE
	144	246163	Detector Base/500/200/Relay B524RTE-W
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	143	246039	Detector Base/500/200AP B501AP
	176	246021	Detector Base/60/65 45681-200
	206	246023	Detector Base/60/Ex 45681-207
	103	246071	Detector Base/600/Diode FC600/BRD
	104	246072	Detector Base/600/Relay FC600/BREL
	103	246070	Detector Base/600 FC600/BR
	105	246082	Detector Base/700/Relay FI700/BREL
	104	246080	Detector Base/700 FI700/B
	105	246081	Detector Base/700 FI700/BD
	204	246090	Detector Base/Conv/Ex YBN-R/4IS
	178	246037	Detector Base/XP95/Disc/Relay 45681-242
	210	246027	Detector Base/XP95/Ex 45681-215
	177	246025	Detector Base/XP95 45681-210
	139	246019	Detector Base 400/300/100 B401DGRM
	146	246013	Isolator Detector Base/500/200 B524IEFT-1
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	152	249012	Wet Base Shroud WB1
	150	246160	Wet Base Shroud WB1-W

249081 Detector Mounting Bracket MMW2-1

The metal bracket is made of galvanised steel sheet and serves for the lateral mounting of an automatic fire detector in elevator shafts or in shelves. As a result of its size, the detector mounting bracket improves the inflow of smoke to the detector. The detector mounting bracket corresponds to TRVB 123. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications

Dimensions L × W × H	300 × 300 × 40 (mm)
Weight	1.55kg

Cross-references	Page	Art.No.	Name Type
	142	246141	Detector Base/1000/Relay/Latching ECO1000BREL24L
	141	246140	Detector Base/1000 ECO1000BR1000
	139	246008	Detector Base/400/300/100 B401RM
	146	246018	Detector Base/500/200/Heater B524HTR
	145	246164	Detector Base/500/200/Heater B524HTR-W
	145	246016	Detector Base/500/200/Relay B524RTE
	144	246163	Detector Base/500/200/Relay B524RTE-W
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	143	246039	Detector Base/500/200AP B501AP
	176	246021	Detector Base/60/65 45681-200

206	246023	Detector Base/60/Ex 45681-207
103	246071	Detector Base/600/Diode FC600/BRD
104	246072	Detector Base/600/Relay FC600/BREL
103	246070	Detector Base/600 FC600/BR
105	246082	Detector Base/700/Relay FI700/BREL
104	246080	Detector Base/700 FI700/B
105	246081	Detector Base/700 FI700/BD
204	246090	Detector Base/Conv/Ex YBN-R/4IS
178	246037	Detector Base/XP95/Disc/Relay 45681-242
210	246027	Detector Base/XP95/Ex 45681-215
177	246025	Detector Base/XP95 45681-210
139	246019	Detector Base 400/300/100 B401DGRM
146	246013	Isolator Detector Base/500/200 B524IEFT-1
177	246036	Isolator Detector Base/XP95/Disc 45681-321
152	249012	Wet Base Shroud WB1
150	246160	Wet Base Shroud WB1-W

249635 Trapeze Bracket TBH800-1

The trapezoid steel bracket is used for mounting a detector base on a trapezoid ceiling. The bracket is suitable for mounting of various detector series in conventional or ADM loop technology.

Specifications

Dimensions L × W × H	35 × 95 × 95 (mm)
Weight	150g

Cross-references

Page	Art.No.	Name Type
141	246140	Detector Base/1000 ECO1000BR1000
139	246008	Detector Base/400/300/100 B401RM
144	246038	Detector Base/500/200AP/Ivory B501AP-IV
143	246039	Detector Base/500/200AP B501AP
176	246021	Detector Base/60/65 45681-200
103	246071	Detector Base/600/Diode FC600/BRD
103	246070	Detector Base/600 FC600/BR
104	246080	Detector Base/700 FI700/B
105	246081	Detector Base/700 FI700/BD
177	246025	Detector Base/XP95 45681-210
139	246019	Detector Base 400/300/100 B401DGRM
146	246013	Isolator Detector Base/500/200 B524IEFT-1
177	246036	Isolator Detector Base/XP95/Disc 45681-321

249640 Protective Cage BWS-1/D1

The protective cage is used to protect a detector against mechanical impacts (e.g., ball shots) and unauthorised removal.

Specifications

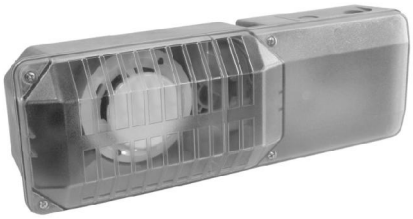
Material	steel wire ST37
Dimensions Ø × H	108 × 135 (mm)
Colour	white

Weight 132g

Cross-references	Page	Art.No.	Name Type
	141	246140	Detector Base/1000 ECO1000BR1000
	139	246008	Detector Base/400/300/100 B401RM
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	143	246039	Detector Base/500/200AP B501AP
	176	246021	Detector Base/60/65 45681-200
	177	246025	Detector Base/XP95 45681-210
	139	246019	Detector Base 400/300/100 B401DGRM
	146	246013	Isolator Detector Base/500/200 B524IEFT-1
	177	246036	Isolator Detector Base/XP95/Disc 45681-321

244009 Duct Detector Housing/400 DH400P

The Duct Detector DH400P monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the air inlet pipe, directed to the optical smoke detector, and is released into the ventilation duct again via the air escape pipe.



The duct detector consists of a plastic housing with transparent cover and the Optical Smoke Detector 2151E-LC. The air escape pipe is already integrated in the plastic housing. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references). The alarm is transmitted in conventional technology.

Features
- Transparent cover for optical recognition of detector activation
- Approved for wind speeds from 1.5m/s to 20m/s

Specifications

Operating voltage	supplied through detector line voltage
Current consumption at 24V	typ. 100µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	380 × 125 × 100 (mm)
Colour	grey
Weight	2.0kg

Cross-references	Page	Art.No.	Name Type
	160	244005	Duct Detector Pipe/0.3-0.6m ST-1.5
	161	244010	Duct Detector Pipe/0.6-1.2m ST-3
	161	244011	Duct Detector Pipe/1.2-2.4m ST-5
	161	244012	Duct Detector Pipe/2.4-3.7m ST-10

241038 Optical Smoke Detector/100 2151E-LC

The Optical Smoke Detector 2151E-LC operates with an optical sensing chamber on the principle of scattered light. The alarm is transmitted to the fire detection control panel in conventional technology. The optical smoke detector is accommodated in a flat plastic housing and is exclusively designed for the installation in the Duct Detector DH400P.

Features
- Mechanical theft protection
- Insect screen
- Function testing possible by test activation via magnet
- Service connector for testing with the Test Module MOD400R

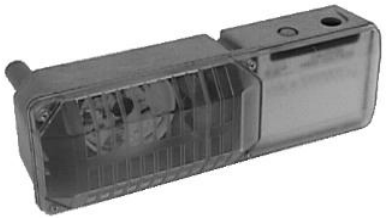
Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 100µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	103 × 42 (mm)
Colour	cream
Weight	104g
Approval	0832-CPD-0058

Cross-references	Page	Art.No.	Name Type
	159	244009	Duct Detector Housing/400 DH400P

244008 Duct Detector Housing/500/200 DH500

The Duct Detector Housing DH500 monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the air inlet pipe, directed to an optical smoke detector, and is released again into the ventilation duct via the air escape pipe.



The plastic housing is delivered with a built-in detector base, but **without** detector. The detector base can accommodate a smoke detector Series 200 for use on the ADM loop with System Sensor/200 protocol. The air escape pipe is integrated into the plastic housing. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references).

Features

- Inspection window for optical identification of a detector activation
- Terminal for external remote indicator
- Approved for wind speeds of 2.5m/s to 20m/s

Specifications

Ambient temperature	-10°C to +60°C
Dimensions W × H × D	367 × 127 × 102 (mm)
Colour	grey
Weight	1.9kg

Cross-references	Page	Art.No.	Name Type
	160	244005	Duct Detector Pipe/0.3-0.6m ST-1.5
	161	244010	Duct Detector Pipe/0.6-1.2m ST-3
	161	244011	Duct Detector Pipe/1.2-2.4m ST-5
	161	244012	Duct Detector Pipe/2.4-3.7m ST-10
	119	241050	Optical Laser Smoke Detector/200 7251
	118	241047	Optical Smoke Detector/200AP/Ivory ND22051E-IV

244005 Duct Detector Pipe/0.3-0.6m ST-1.5

The air inlet pipe is designed for use with the Duct Detector Housings DH400P and DH500 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of 0.3 to 0.6m and can be cut to the desired length. The delivery scope of the duct dectector housing includes an end cap for closing the end of the pipe.

Specifications
Length 0.45m

Cross-references	Page	Art.No.	Name Type
	159	244009	Duct Detector Housing/400 DH400P
	160	244008	Duct Detector Housing/500/200 DH500

244010 Duct Detector Pipe/0.6-1.2m ST-3

The air inlet pipe is designed for use with the Duct Detector Housings DH400P and DH500 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of 0.6 to 1.2m and can be cut to the desired length. The delivery scope of the duct dectector housing includes an end cap for closing the end of the pipe.

Specifications
Length 0.9m

Cross-references	Page	Art.No.	Name Type
	159	244009	Duct Detector Housing/400 DH400P
	160	244008	Duct Detector Housing/500/200 DH500

244011 Duct Detector Pipe/1.2-2.4m ST-5

The air inlet pipe is designed for use with the Duct Detector Housings DH400P and DH500 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of 1.2 to 2.4m and can be cut to the desired length. The delivery scope of the duct dectector housing includes an end cap for closing the end of the pipe.

Specifications
Length 1.5m

Cross-references	Page	Art.No.	Name Type
	159	244009	Duct Detector Housing/400 DH400P
	160	244008	Duct Detector Housing/500/200 DH500

244012 Duct Detector Pipe/2.4-3.7m ST-10

The air inlet pipe is designed for use with the Duct Detector Housings DH400P and DH500 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of 2.4 to 3.7m and can be cut to the desired length. The delivery scope of the duct dectector housing includes an end cap for closing the end of the pipe.

Specifications
Length 3m (delivered in two parts)

Cross-references	Page	Art.No.	Name Type
	159	244009	Duct Detector Housing/400 DH400P
	160	244008	Duct Detector Housing/500/200 DH500

15 Conventional Detectors Series 65

240027 Ionisation Smoke Detector/65 55000-217

The Ionisation Smoke Detector 55000-217 is based on the ionisation principle and is designed for indoor applications using addressable conventional technology. The detector consists of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences.

Features

- Sealed electronics prevents false alarms caused by the environment
- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 28µA (quiescent)
Ambient temperature	-20°C to +60°C
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	102g
Approvals	VdS G200075 0832-CPD-0015

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

241026 Optical Smoke Detector/65 55000-317

The Optical Smoke Detector 55000-317 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

Features

- Sealed electronics prevents false alarms caused by the environment
- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)

Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	VdS G200017
	0832-CPD-0021

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

242024 Thermal RoR Detector/65/A1R 55000-122

The Thermal RoR Detector 55000-122 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

Features

- Sealed electronics prevents false alarms caused by the environment
- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	VdS G200059
	0832-CPD-0003

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

242025 Thermal RoR Detector/65/BR 55000-127

The Thermal RoR Detector 55000-127 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 78°C according to EN 54-5, Class BR. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

Features

- Sealed electronics prevents false alarms caused by the environment

- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	78°C (maximum-heat component)
Operating temperature	max. +65°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	VdS G200060
	0832-CPD-0006

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

242026 Thermal RoR Detector/65/CR 55000-132

The Thermal RoR Detector 55000-132 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 90°C according to EN 54-5, Class CR. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

Features

- Sealed electronics prevents false alarms caused by the environment
- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	90°C (maximum-heat component)
Operating temperature	max. +80°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	VdS G200061
	0832-CPD-0009

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

242027 Thermal Max Detector/65/CS 55000-137

The Thermal Max Detector 55000-137 reacts to a maximum temperature of 90°C according to EN 54-5, Class CS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

Features

- Sealed electronics prevents false alarms caused by the environment
- Individual detector addressing by installing an optional Address Module NG60-1
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	typ. 90°C
Operating temperature	max. +80°C (continuous operation)
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	VdS G200062
	0832-CPD-0012

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251
	79	251003	Remote Indicator PA58-3

16 Analog Detectors and Modules Series XP95/DISCOVERY

241023 Optical Smoke Detector/XP95 55000-620

The Optical Smoke Detector 55000-620 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- Permanent evaluation of environmental conditions
- Constant sensitivity
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 340µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G294028 0832-CPD-0164

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242023 Thermal Detector/XP95 55000-420

The Thermal Detector 55000-420 can be parameterised at the fire detection control panel as Class A2R rate-of-rise detector or as Class A2S maximum heat detector. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting up to a maximum room height of 6m.

Note: According to the Construction Products Directive CPD, the detector has only been approved for use as maximum heat detector!

Features
- Continuous transmission of the current measured value to the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 250µA (quiescent)
Ambient temperature	-20°C to +70°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G294029 0832-CPD-0161

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241027 Optical Smoke Detector/Disc 58000-600

The Optical Smoke Detector 58000-600 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features
- Permanent evaluation of environmental conditions
- Constant sensitivity
- Response sensitivity can be set in 5 steps via the Fire Detection Control Panel Series BC216 (1.4 to 2.8%/m)
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G299037

0832-CPD-0024

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

241022 Optical-Thermal Detector/Disc 58000-700

The Optical-Thermal Detector 58000-700 operates both with an optical sensing chamber based on the principle of scattered light as well as with a temperature sensor based on the rate-of-rise heat detection principle. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided. Please note that the detector must not be used if the room height exceeds 7.5m in the thermal only mode.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features

- Permanent evaluation of environmental conditions
- Constant sensitivity
- Response sensitivity and operation mode can be set in 5 steps via the Fire Detection Control Panel Series BC216 (smoke only, heat only, 3 levels multisensor)
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

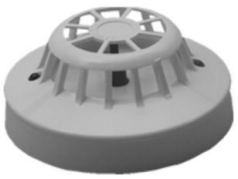
Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	105g
Approvals	VdS G299038
	0832-CPD-0025

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

242028 Thermal Detector/Disc 58000-400

The Thermal Detector 58000-400 can be parameterised at the fire detection control panel as Class A1R or CR rate-of-rise detector, or as Class A2, A2S or CS maximum heat detector. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting. In Class A1R the maximum room height is 7.5m, else 6m.



Features

- Classification can be set in 5 steps (A1R, A2, A2S, CR and CS) via Fire Detection Control Panel Series BC216
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Alarm temperature	typ. 58°C with A1R typ. 61°C with A2 and A2S typ. 90°C with CR and CS
Operating temperature	max. +50°C with A1R, A2 and A2S max. +80°C with CR and CS
Ambient temperature	-20°C to +80°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G299039 0832-CPD-0022

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

243100 Carbon Monoxide Detector/Disc 58000-300

The addressable CO detector contains a durable electro-chemical carbon monoxide sensor and, as a result, the detector is very suitable for the detection of smouldering fires or as supplement to optical smoke detectors. The detector is designed for application on the ADM loop using Apollo/Discovery protocol and for indoor mounting.

Features

- Sensitivity can be set in 5 steps via the Fire Detection Control Panel Series BC216
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	0°C to +40°C (no condensation)

Relative humidity	15 to 90% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	79	251003	Remote Indicator PA58-3

249061 Monitor Module/XP95/Mini 55000-833

The addressable compact mini module 55000-833 is used for the line-monitored integration of contact detectors (e.g., sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop with Apollo/Discovery protocol.

Features
- Output for an optional LED indicator
- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1mA (quiescent)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	76 × 47 × 14 (mm)
Connection technology	six flexible wires of 150mm length
Colour	white
Weight	46g

Cross-references	Page	Art.No.	Name Type
	174	249029	Isolator Module/XP95/Disc ISM1-3
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249060 Monitor Module/XP95/Mini/Inter. 55000-832

The addressable compact mini module 55000-832 is used for the line-monitored integration with prioritised alarm transmission of contact detectors (e.g., manual call points) into the bi-directional communication on the ADM loop with Apollo/Discovery protocol.

Features
- Prioritised quick alarm transmission to the fire detection control panel
- Output for an optional LED indicator
- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1mA (quiescent)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	76 × 47 × 14 (mm)
Connection technology	six flexible wires of 150mm length
Colour	white
Weight	46g

Cross-references	Page	Art.No.	Name Type
	174	249029	Isolator Module/XP95/Disc ISM1-3
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249072 Monitor Module/XP95/Special 55000-841

The addressable module 55000-841 with integrated dual-isolator is used for the line-monitored integration of special detectors (e.g., beam smoke detectors) into the bi-directional communication on the ADM loop with Apollo/Discovery protocol. The module provides a reset output for resetting the connected detectors.

Features

- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1.2mA (quiescent)
Line termination	20kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201033

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249076 Module 1xIn 1xRel.Out/XP95 55000-847

The addressable module 55000-847 is used for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices via the bi-directional communication on the ADM loop with Apollo/Discovery protocol. The module provides a monitored input and a relay output with two dry contacts. Furthermore, an external voltage can be monitored via an opto-coupled input. The unit includes an integrated dual-isolator; it is integrated into a plastic housing.

Features

- Separate status LED for each input and output
- Terminal connecting lines of input monitored for wire breakage and short circuit
- DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.5mA (quiescent)
Contact rating	1A/30VDC or AC
Line termination	20kOhm
Alarm threshold	typ. 4.7kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)

Colour	white
Weight	240g
Approval	VdS G201032

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249077 Module 3xIn 3xRel.Out/XP95 55000-588

The addressable module 55000-588 is used for the line-monitored integration of 3 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices by means of 3 dry relay outputs via the bi-directional communication on the ADM loop with Apollo/Discovery protocol. The module provides an integrated dual-isolator and is integrated into a plastic housing.

Features

- Separate status LED for each input and output
- Terminal connecting lines of input monitored for wire breakage and short circuit
- DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 3mA (quiescent)
Contact rating	1A/30VDC or AC
Line termination	20kOhm
Alarm threshold	typ. 4.7kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	250 × 175 × 75 (mm)
Colour	white
Weight	621g
Approval	VdS G202052

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249078 Module 1xIn 1xRel.Out/230/XP95 55000-875

The addressable module 55000-875 is used for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) as well as for triggering external devices by means of a dry relay output via the bi-directional communication on the ADM loop with Apollo/Discovery protocol. The module provides an integrated dual-isolator and is integrated into a plastic housing.

Features

- Separate status LED for input and output
- Terminal connecting lines of input monitored for wire breakage and short circuit
- DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.25mA (quiescent)
Contact rating	2A/48VDC or 5A/230VAC
Line termination	20kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249073 Control Module/XP95 55000-852

The addressable module 55000-852 with integrated dual-isolator is used for the line-monitored activation of external devices (e.g., fire controls, acoustic and optical signalling devices) via the bi-directional communication on the ADM loop with Apollo/Discovery protocol. A monitored output can be used as actuation output. An external supply voltage has to be applied for the power supply of the external devices.

Features

- Monitoring of the external supply voltage
- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1.9mA (quiescent)
External consumer voltage	max. 32VDC
Output current	max. 1A (resistive or inductive load)
Monitoring voltage	-10VDC
End-of-line resistor	10kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201095

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249074 Control Module/XP95/Relay 55000-849

The addressable module 55000-849 with integrated dual-isolator is used for the activation of external devices (e.g., fire control, acoustic and optical signalling devices) via the bi-directional communication on the ADM loop with Apollo/Discovery protocol. Two dry change-over contacts can be used as actuation output.

Features

- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	720µA (quiescent)
Contact load	30VDC/1A (resistive or inductive load)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201032

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249075 Conventional Zone Module/XP95 55000-845

The addressable module 55000-845 with integrated dual-isolator is used for the integration of conventional detectors into the bi-directional communication on the ADM loop with Apollo/Discovery protocol.

Features

- Switch for setting the physical address from 01 to 126

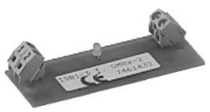
Specifications

Operating voltage	supplied through loop voltage
Current consumption	4mA (quiescent)
Line termination	6.2kOhm
Detector current	max. 1mA
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	230g
Approval	VdS G201094

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249029 Isolator Module/XP95/Disc ISM1-3

The Isolator Module ISM1-3 is used for the connection to an ADM loop with Apollo/Discovery protocol. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of the detectors and modules outside this area is ensured. For optimum availability, the detection zones on the ADM loop should be separated from each other by isolator modules.



Features

- LED indicates activation
- Installation in commercially available installation sockets, on a mounting bracket or on a module carrier

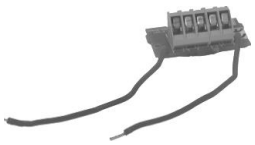
Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approval	VdS G296012

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

249070 Isolator Module/Board/XP95 43781-552

The isolator module board 43781-552 is used for installation in the housing of a detector, e.g., of a manual call point. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all detectors and modules outside this area is ensured. For optimum availability, the detection zones on the ADM loop should be separated from each other by isolator modules.



Features

- Connection to the ADM loop using Apollo/Discovery protocol
- LED indicates activation
- Installation in devices (manual call points, etc.)

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	approx. 30 × 24 × 8 (mm)
Weight	20g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

17 Accessories for Series 65/XP95/DISCOVERY

246021 Detector Base/60/65 45681-200

The Detector Base 45681-200 is designed to accommodate automatic fire detectors Series 65 in addressable conventional technology and is suitable for indoor surface mounting.

Features

- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG60-1
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246035 Detector Base/60/65 45681-251

The Detector Base 45681-251 in flush mounting design is used to accommodate automatic fire detectors Series 65 and is designed in particular for mounting on inserted ceilings made of mineral fibre. The base is delivered with a cover plate.

Specifications

Dimensions Ø × H	150 × 15 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	79	251003	Remote Indicator PA58-3

246025 Detector Base/XP95 45681-210

The Detector Base 45681-210 is designed to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The detector address is set by means of a code card, which is delivered with the base.

Features

- Connection to ADM loop using Apollo/Discovery protocol
- Easy detector addressing through address card in mounting base
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246036 Isolator Detector Base/XP95/Disc 45681-321

The mounting base with integrated dual-isolator is used to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The base is delivered with a code card for the setting of the detector address.

Features

- Connection to ADM loop using Apollo/Discovery protocol
- Wiring of the ADM loop across several fire areas
- Easy detector addressing through address card in mounting base
- Full operation of all loop elements not affected by the short circuit
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 43µA
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g
Approval	VdS G200082

Cross-references	Page	Art.No.	Name Type
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1
	158	249640	Protective Cage BWS-1/D1
	79	251003	Remote Indicator PA58-3
	158	249635	Trapeze Bracket TBH800-1

246037 Detector Base/XP95/Disc/Relay 45681-242

The Detector Base 45681-242 is designed to accommodate fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The integrated relay output is active as long as the detector remains in the alarm state. Application must comply with the LST Connection of Detectors.

Features

- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact

Specifications

Current consumption	max. 1µA (quiescent), 40µA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.No.	Name Type
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1

246034 Detector Base/XP95/Disc 45681-250

The Detector Base 45681-250 in flush mounting design is used to accommodate automatic fire detectors Series XP95 and Discovery and is designed in particular for mounting on inserted ceilings made of mineral fibre. The base is delivered with a cover plate and a code card for the setting of the detector address.

Specifications

Dimensions Ø × H	150 × 15 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.No.	Name Type
	79	251003	Remote Indicator PA58-3

246029 Conduit Box/Apo 45681-204

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95 and Discovery when they are surface mounted using cable conduits or thick cables. The supplement base is prepared for the use of PG screw connections.

Specifications

Dimensions Ø × H	100 × 30 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.No.	Name Type
	176	246021	Detector Base/60/65 45681-200
	206	246023	Detector Base/60/Ex 45681-207
	178	246037	Detector Base/XP95/Disc/Relay 45681-242
	210	246027	Detector Base/XP95/Ex 45681-215
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321

246030 Backplate/Apo 45681-233

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95 and Discovery when they are surface mounted, as well as to protect the mounting area against dust or dirt.

Specifications

Dimensions Ø × H	112 × 15 (mm)
Colour	white
Weight	40g

Cross-references	Page	Art.No.	Name Type
	176	246021	Detector Base/60/65 45681-200
	206	246023	Detector Base/60/Ex 45681-207
	178	246037	Detector Base/XP95/Disc/Relay 45681-242
	210	246027	Detector Base/XP95/Ex 45681-215
	177	246025	Detector Base/XP95 45681-210
	177	246036	Isolator Detector Base/XP95/Disc 45681-321

246031 Duct Detector Housing/XP95 53546-016

The plastic housing contains a detector base for mounting an Apollo Series XP95 or Discovery smoke detector and is needed for the monitoring of ventilation ducts. The air escape pipe and the air inlet pipe are included in the delivery.

Features

- Mounting base for Series XP95/Discovery detectors
- Applicable in ventilation ducts of 300mm to 1500mm width
- Suitable for wind speeds of 1m/s to 25m/s
- Transparent cover for optical identification of a detector activation
- No impact on the operation of the ventilation system
- Included drilling template for easy mounting

Specifications

Ambient temperature	0°C to +60°C
Dimensions L × W × H	245 × 110 × 92 (mm)
Colour	grey
Weight	1.5kg

Cross-references	Page	Art.No.	Name Type
	167	241027	Optical Smoke Detector/Disc 58000-600
	166	241023	Optical Smoke Detector/XP95 55000-620

246032 Detector Heater/60/65 MH60-1

The mounting base MH60-1 with included heating is used for the application of an Apollo Series 65 optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.

Features

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	162	240027	Ionisation Smoke Detector/65 55000-217
	162	241026	Optical Smoke Detector/65 55000-317
	155	249014	PSU For Detector Heater MH-TR1

246033 Detector Heater/XP95/Disc MH95-1

The mounting base MH95-1 with included heating is used for the application of an Apollo Series XP95 or Discovery optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.

Features

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	167	241027	Optical Smoke Detector/Disc 58000-600
	166	241023	Optical Smoke Detector/XP95 55000-620
	155	249014	PSU For Detector Heater MH-TR1

249028 Address Module Conventional/60/65 NG60-1

The electronic component is needed for the application in addressable conventional technology and serves for the individual or group identification of Series 65 and Orbis automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.

Features

- Double-digit indication of the detector number and parameterised clear text on the display of a compatible fire detection control panel
- Detector number setting from 0 to 63
- Open-collector output for triggering a remote indicator
- Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	38 × 19 × 5 (mm) without leads
Weight	10g

Cross-references	Page	Art.No.	Name Type
	176	246021	Detector Base/60/65 45681-200
	176	246035	Detector Base/60/65 45681-251

249039 Address Cards/100pcs./XP95/Disc 38531-771

The address card is used for setting the physical address in the detector base of an automatic fire detector Series XP95 or Discovery or a loop strobe. 100 pieces of unprogrammed address card are included in the packing unit.

Note: an address card is included in each detector base.

Features

- No electronics contained
- Easy programming
- Easy to replace

Specifications

Address range	01 to 126
Dimensions L × W × H	55 × 20 × 4 (mm)
Colour	white
Weight per card	2g

18 Manual Call Points

245302 Manual Call Point/Red/Conv HFM/3/11/02

The universal manual call point according to EN 54-11/B is accommodated in a red aluminium die-cast housing and is designed for application in addressable conventional technology.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions by means of symbols (European Standard)
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Individual detector addressing by connecting an optional address module
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	red, RAL 3000
Weight	400g
Approvals	VdS G202034 0786-CPD-20350

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	195	2171612	Replacement Glass for HFM EN54 ET-SCH-HFM

245356 Manual Call Point/Red/Conv/Feuerwehr HM/3/11/01/02

The universal manual call point according to EN 54-11/B is accommodated in a red aluminium die-cast housing and is designed for application in addressable conventional technology.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Function marking "FEUERWEHR", replaceable
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Individual detector addressing by connecting an optional address module
- Plenty of room for cabling

- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	red, RAL 3000
Weight	400g
Approvals	VdS G202034 0786-CPD-20350

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	195	2171620	Replacement Glass for HM/Red ET-SCH-HM-RT
	196	249024	Special Designation for MCP HM/BESCH

245352 Manual Call Point/Blue/Conv/Hausalarm HM/5/11/02/02

The universal manual call point according to EN 54-11/B is accommodated in a blue aluminium die-cast housing and is designed for application in addressable conventional technology.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Function marking "HAUSALARM", replaceable
- Optical activation indication by means of LED
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Individual detector addressing by connecting an optional address module
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approval	VdS G202034

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245925 Spring-button Call Point/Blue/Conv/Haus SM/5/52/02/02

The universal manual call point according to EN 54-11/A (direct activation) is implemented as spring-button detector and is used if especially quick alarming of the helping forces is required. The glass plate keeps the button in the idle position. When the glass is smashed, the button springs to the working position. The two independent switches with change-over contact allow the connection to a danger detection system.

The detector is integrated in a robust aluminium die-cast housing. The protective frame that is integrated into the door ensures a high degree of protection against sabotage when opening the door. If necessary, the spring-button detector can be equipped with a safety lock.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Function marking "HAUSALARM", replaceable
- Two switches with change-over contact
- Non-latching push button
- Easy to replace glass plate
- Optionally with safety lock no. 18
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Contact rating of the switches	max. 2A at 25VAC or 2A at 60VDC
Ambient temperature	-25°C to +70°C
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245417 Manual Call Point/Blue/Conv/Stopp HM/5/11/18/02

The Manual Call Point HM/5/11/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for application in addressable conventional technology. The manual call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN54-11/B and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- Optical indication of activation by LED indicator
- Push button (non-latching)
- Standardised glass pane, easy to replace
- Individual detector identification through connection of an optional address module
- Plenty of space for cabling
- Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approvals	VdS G207160 0786-CPD-20363

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245416 Manual Call Point/Yellow/Conv/Handausl. HM/1/11/17/02

The Manual Call Point HM/1/11/17/02 is used as electrical activation device for gas and water spray extinguishing systems and is designed for application in addressable conventional technology. The manual call point is accommodated in a yellow aluminium die-cast housing and is tested in accordance with the standards EN 54-11/B and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'HANDAUSLÖSUNG-Gaslöschanlage', exchangeable
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Individual detector addressing by connecting an optional address module
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	yellow, RAL 1021
Weight	400g
Approvals	VdS G205018 0786-CPD-20251

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	194	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	195	2171619	Replacement Glass for HM/Yellow ET-SCH-HM-GE
	196	249024	Special Designation for MCP HM/BESCH

245771 Manual Call Point/Red/700 HFM/3/72/02

The manual call point according to EN 54-11/B is accommodated in a red aluminium die-cast housing and is designed for use on the ADM loop with Labor Strauss/700 protocol. The detector is activated by breaking the glass pane and pressing the button.

The LED indicates the activated condition of the detector in red. In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions by symbols (European Standard)
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 120µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	red, RAL 3000
Weight	400g
Approval	VdS pending

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	195	2171612	Replacement Glass for HFM EN54 ET-SCH-HFM

245362 Manual Call Point/Red/200 HFM/3/22/02

The manual call point according to EN 54-11/B is accommodated in a red aluminium die-cast housing. The detector is designed for use on the ADM loop (ring-bus technology) with System Sensor/200 protocol. An integrated dual-isolator disconnects the loop at short circuit.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions by means of symbols (European Standard)
- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button

- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	red, RAL 3000
Weight	400g
Approvals	VdS G202035 0786-CPD-20361

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	195	2171612	Replacement Glass for HFM EN54 ET-SCH-HFM

245372 Manual Call Point/Blue/200/Hausalarm HM/5/22/02/02

The manual call point according to EN 54-11/B is accommodated in a blue aluminium die-cast housing. The detector is designed for use on the ADM loop (ring-bus technology) with System Sensor/200 protocol. An integrated dual-isolator interrupts the loop at short circuit.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Function marking "HAUSALARM", replaceable
- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approval	VdS G202035

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245415 Manual Call Point/Blue/200/Stopp HM/5/22/18/02

The Manual Call Point HM/5/22/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for use on the ADM loop using System Sensor/200 protocol. An integrated dual-isolator disconnects the loop at short circuit.

The manual call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN 54-11/B, EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- Reverse polarity protection
- Integrated microcontroller
- Optical indication of activation by LED indicator
- Push button (non-latching)
- Standardised glass pane, easy to replace
- Setting of physical address with button in combination with LED indicator
- Plenty of space for cabling
- Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation)
	-25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approvals	VdS G206130
	0786-CPD-20254

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245414 Manual Call Point/Yellow/200/Handausl. HM/1/22/17/02

The Manual Call Point HM/1/22/17/02 is used as electrical activation device for gas and water spray extinguishing systems and is designed for use on the ADM loop with System Sensor/200 protocol. An integrated dual-isolator disconnects the loop at short circuit.

The manual call point is accommodated in a yellow aluminium die-cast housing and is tested in accordance with the standards EN 54-11/B, EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'HANDAUSLÖSUNG-Gaslöschanlage', exchangeable
- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	yellow, RAL 1021
Weight	400g
Approvals	VdS G206129 0786-CPD-20253

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	194	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	195	2171619	Replacement Glass for HM/Yellow ET-SCH-HM-GE
	196	249024	Special Designation for MCP HM/BESCH

245389 Manual Call Point/Grey/200/Rauchabzug HM/7/22/03/02

The manual call point according to EN 54-11/B is accommodated in a grey aluminium die-cast housing. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol. An integrated dual-isolator disconnects the loop at short circuit.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'RAUCHABZUG', exchangeable
- Reverse polarity protection
- Integrated microcontroller
- Optical indication of activation by LED indicator
- Latching push button
- Standardised glass pane, easy to replace
- Setting of physical address with button in combination with LED indicator
- Plenty of space for cabling

- Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	light grey, RAL 7035
Weight	400g
Approval	VdS G202035

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	195	2171612	Replacement Glass for HFM EN54 ET-SCH-HFM
	196	249024	Special Designation for MCP HM/BESCH

245402 Manual Call Point/Red/XP95 HFM/3/32/02

The manual call point according to EN 54-11/B is integrated in a red aluminium die-cast housing. The detector is designed for application on the ADM loop (ring-bus technology) using Apollo/Discovery protocol. An integrated dual-isolator disconnects the loop at short circuit. The manual call point is tested in accordance with the standards EN 54-11/B and EN 54-17.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions by means of symbols (European Standard)

- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling

- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through the loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	red, RAL 3000
Weight	400g
Approvals	VdS G204003 0786-CPD-20356

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	195	2171612	Replacement Glass for HFM EN54 ET-SCH-HFM

245395 Manual Call Point/Blue/XP95/Hausalarm HM/5/32/02/02

The manual call point according to EN 54-11/B is integrated in a blue aluminium die-cast housing. The detector is designed for application on the ADM loop (ring-bus technology) using Apollo/Discovery protocol. An integrated dual-isolator interrupts the loop at short circuit. The manual call point is tested in accordance with the standards EN 54-11/B and EN 54-17.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Function marking "HAUSALARM", replaceable
- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approval	VdS G204003

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245429 Manual Call Point/Blue/XP95/Stopp HM/5/32/18/02

The Manual Call Point HM/5/32/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for use on the ADM loop using Apollo/Discovery protocol. An integrated dual-isolator disconnects the loop at short circuit. The manual call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN54-11/B, EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- Reverse polarity protection
- Integrated microcontroller
- Optical indication of activation by LED indicator
- Push button (non-latching)
- Standardised glass pane, easy to replace
- Setting of physical address with button in combination with LED indicator
- Plenty of space for cabling

- Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	blue, RAL 5015
Weight	400g
Approvals	VdS G206128 0786-CPD-20256

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	193	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	195	2171621	Replacement Glass for HM/Blue ET-SCH-HM-BL
	196	249024	Special Designation for MCP HM/BESCH

245432 Manual Call Point/Yellow/XP95/Handausl. HM/1/32/17/02

The Manual Call Point HM/1/32/17/02 is used as electrical activation device for gas and water spray extinguishing systems and is designed for use on the ADM loop with Apollo/Discovery protocol. An integrated dual-isolator disconnects the loop at short circuit. The manual call point is accommodated in a yellow aluminium die-cast housing and is tested in accordance with the standards EN 54-11/B, EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Inscription field 'HANDAUSLÖSUNG-Gaslöschanlage', exchangeable
- Reverse polarity protection
- Built-in microcontroller
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Button in combination with LED for setting the physical address
- Plenty of room for cabling
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	yellow, RAL 1021
Weight	400g
Approvals	VdS G206127 0786-CPD-20255

Cross-references	Page	Art.No.	Name Type
	194	2171602	Key for Manual Call Point SCH-HFM-HM
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	194	249631	Protection Kit IP54 for MCP HFM/HM-ZS-IP54
	194	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	195	2171619	Replacement Glass for HM/Yellow ET-SCH-HM-GE
	196	249024	Special Designation for MCP HM/BESCH

249633 Protective Cover V2A for MCP/Red WG/ROT-E-1

The red powder-coated protective cover made of V2A stainless steel is used to protect a red manual call point which is installed in an open area.

Features
- Top-side and lateral rain protection
- Mechanical protection
- Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	red, RAL 3000
Weight	250g

Cross-references	Page	Art.No.	Name Type
	186	245362	Manual Call Point/Red/200 HFM/3/22/02
	186	245771	Manual Call Point/Red/700 HFM/3/72/02
	182	245356	Manual Call Point/Red/Conv/Feuerwehr HM/3/11/01/02
	182	245302	Manual Call Point/Red/Conv HFM/3/11/02
	190	245402	Manual Call Point/Red/XP95 HFM/3/32/02

249634 Protective Cover V2A for MCP/Blue WG/BLAU-E-1

The blue powder-coated protective cover made of V2A stainless steel is used to protect a blue manual call point which is installed in an open area.

Features
- Top-side and lateral rain protection
- Mechanical protection
- Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	blue, RAL 5015
Weight	250g

Cross-references	Page	Art.No.	Name Type
	187	245372	Manual Call Point/Blue/200/Hausalarm HM/5/22/02/02
	188	245415	Manual Call Point/Blue/200/Stopp HM/5/22/18/02
	183	245352	Manual Call Point/Blue/Conv/Hausalarm HM/5/11/02/02
	184	245417	Manual Call Point/Blue/Conv/Stopp HM/5/11/18/02
	191	245395	Manual Call Point/Blue/XP95/Hausalarm HM/5/32/02/02
	191	245429	Manual Call Point/Blue/XP95/Stopp HM/5/32/18/02
	184	245925	Spring-button Call Point/Blue/Conv/Haus SM/5/52/02/02

249636 Protective Cover V2A for MCP/Yellow WG/GELB-E-1

The yellow powder-coated protective cover made of V2A stainless steel is used to protect a yellow manual call point which is installed in an open area.

Features
- Top-side and lateral rain protection
- Mechanical protection
- Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

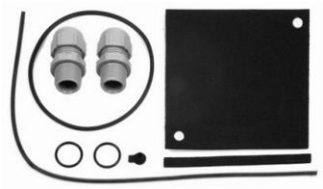
Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	yellow, RAL 1021
Weight	250g

Cross-references	Page	Art.No.	Name Type
	189	245414	Manual Call Point/Yellow/200/Handausl. HM/1/22/17/02
	185	245416	Manual Call Point/Yellow/Conv/Handausl. HM/1/11/17/02
	192	245432	Manual Call Point/Yellow/XP95/Handausl. HM/1/32/17/02

249631 Protection Kit IP54 for MCP HFM/HM-ZS-IP54

The accessory kit is used for increasing the protection class of manual call points according to EN 54-11/B to IP54. The kit includes gasket elements, a cable gland M20x1 and a mounting instruction.



Cross-references	Page	Art.No.	Name Type
	187	245372	Manual Call Point/Blue/200/Hausalarm HM/5/22/02/02
	188	245415	Manual Call Point/Blue/200/Stopp HM/5/22/18/02
	183	245352	Manual Call Point/Blue/Conv/Hausalarm HM/5/11/02/02
	184	245417	Manual Call Point/Blue/Conv/Stopp HM/5/11/18/02
	191	245395	Manual Call Point/Blue/XP95/Hausalarm HM/5/32/02/02
	191	245429	Manual Call Point/Blue/XP95/Stopp HM/5/32/18/02
	189	245389	Manual Call Point/Grey/200/Rauchabzug HM/7/22/03/02
	186	245362	Manual Call Point/Red/200 HFM/3/22/02
	186	245771	Manual Call Point/Red/700 HFM/3/72/02
	182	245356	Manual Call Point/Red/Conv/Feuerwehr HM/3/11/01/02
	182	245302	Manual Call Point/Red/Conv HFM/3/11/02
	190	245402	Manual Call Point/Red/XP95 HFM/3/32/02
	189	245414	Manual Call Point/Yellow/200/Handausl. HM/1/22/17/02
	185	245416	Manual Call Point/Yellow/Conv/Handausl. HM/1/11/17/02
	192	245432	Manual Call Point/Yellow/XP95/Handausl. HM/1/32/17/02
	184	245925	Spring-button Call Point/Blue/Conv/Haus SM/5/52/02/02

2171602 Key for Manual Call Point SCH-HFM-HM

The standard key is used for opening the doors of various components of fire alarm technology, e.g., manual call points, Fire Brigade Control Units FBF58-1, FBF58-2, Fire Brigade Key Safe Adapters AD800-1 and Fire Brigade Map Boxes FWP-1.

2171612 Replacement Glass for HFM EN54 ET-SCH-HFM

The standardised replacement glass without marking is required for manual call points Series HFM/HM.

Specifications
Dimensions W × H × D 80 × 80 × 0.9 (mm)

Cross-references	Page	Art.No.	Name Type
	189	245389	Manual Call Point/Grey/200/Rauchabzug HM/7/22/03/02
	186	245362	Manual Call Point/Red/200 HFM/3/22/02
	186	245771	Manual Call Point/Red/700 HFM/3/72/02
	182	245302	Manual Call Point/Red/Conv HFM/3/11/02
	190	245402	Manual Call Point/Red/XP95 HFM/3/32/02

2171620 Replacement Glass for HM/Red ET-SCH-HM-RT

The standardised replacement glass with red marking is required for manual call points Series HM.

Specifications
Dimensions W × H × D 80 × 80 × 0.9 (mm)

Cross-references	Page	Art.No.	Name Type
	182	245356	Manual Call Point/Red/Conv/Feuerwehr HM/3/11/01/02

2171621 Replacement Glass for HM/Blue ET-SCH-HM-BL

The standardised replacement glass with blue marking is required for manual call points Series HM.

Specifications
Dimensions W × H × D 80 × 80 × 0.9 (mm)

Cross-references	Page	Art.No.	Name Type
	187	245372	Manual Call Point/Blue/200/Hausalarm HM/5/22/02/02
	188	245415	Manual Call Point/Blue/200/Stopp HM/5/22/18/02
	183	245352	Manual Call Point/Blue/Conv/Hausalarm HM/5/11/02/02
	184	245417	Manual Call Point/Blue/Conv/Stopp HM/5/11/18/02
	191	245395	Manual Call Point/Blue/XP95/Hausalarm HM/5/32/02/02
	191	245429	Manual Call Point/Blue/XP95/Stopp HM/5/32/18/02
	184	245925	Spring-button Call Point/Blue/Conv/Haus SM/5/52/02/02

2171619 Replacement Glass for HM/Yellow ET-SCH-HM-GE

The standardised replacement glass with yellow marking is required for manual call points Series HM.

Specifications
Dimensions W × H × D 80 × 80 × 0.9 (mm)

Cross-references	Page	Art.No.	Name Type
	189	245414	Manual Call Point/Yellow/200/Handausl. HM/1/22/17/02
	185	245416	Manual Call Point/Yellow/Conv/Handausl. HM/1/11/17/02
	192	245432	Manual Call Point/Yellow/XP95/Handausl. HM/1/32/17/02

249024 Special Designation for MCP HM/BESCH

If required, the labelling of a manual call point can be chosen freely. The desired wording has to be specified upon order.

Cross-references	Page	Art.No.	Name Type
	187	245372	Manual Call Point/Blue/200/Hausalarm HM/5/22/02/02
	188	245415	Manual Call Point/Blue/200/Stopp HM/5/22/18/02
	183	245352	Manual Call Point/Blue/Conv/Hausalarm HM/5/11/02/02
	184	245417	Manual Call Point/Blue/Conv/Stopp HM/5/11/18/02
	191	245395	Manual Call Point/Blue/XP95/Hausalarm HM/5/32/02/02
	191	245429	Manual Call Point/Blue/XP95/Stopp HM/5/32/18/02
	189	245389	Manual Call Point/Grey/200/Rauchabzug HM/7/22/03/02
	182	245356	Manual Call Point/Red/Conv/Feuerwehr HM/3/11/01/02
	189	245414	Manual Call Point/Yellow/200/Handausl. HM/1/22/17/02
	185	245416	Manual Call Point/Yellow/Conv/Handausl. HM/1/11/17/02
	192	245432	Manual Call Point/Yellow/XP95/Handausl. HM/1/32/17/02
	184	245925	Spring-button Call Point/Blue/Conv/Haus SM/5/52/02/02

245080 Manual Call Point/Red/700/Flexi FI700/MCP

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is designed for use on the ADM loop with Labor Strauss/700 protocol. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

A two-coloured LED indicates the activated condition of the detector in red, the fault condition in yellow and the loop polling in green. In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

Features

- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 70µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP54 (in connection with mounting box)
Dimensions W × H × D	87 × 87 × 58 (mm, with mounting box)
Colour	flame red, RAL 3000
Weight	190g (with mounting box)
Approval	LPCB pending

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	36	214037	Loop Interface LIF128-1

245081 Manual Call Point IP67/Red/700 FI700/MCP67

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is designed for use on the ADM loop with Labor Strauss/700 protocol. Thanks to its dust and water protected design, the manual call point is suitable for use under harsh environmental conditions. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

A two-coloured LED indicates the activated condition of the detector in red, the fault condition in yellow and the loop polling in green. In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the loop elements that are separated from the faulty loop section remain fully functional.

By means of the Programming Unit FI700/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

Features
- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Installation box with gasket elements included in delivery

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 70µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Ambient temperature	-20°C to +65°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	119 × 128 × 62 (mm)
Colour	flame red, RAL 3000
Weight	approx. 250g
Approval	LPCB pending

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	36	214037	Loop Interface LIF128-1

245040 Manual Call Point/Red/200/Glass MCP5A-RP07FG

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by breaking the glass pane. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features
- Operating instructions by symbols (European Standard)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	260µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)

Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166b/45

Cross-references	Page	Art.No.	Name Type
	202	249213	Glass Pane for MCP5A Series/10pcs. G21140
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	201	245019	Surface Mount Box/MCP5A SR
	202	245012	Surface Mount Box/MCP5A SR3T

245041 Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by breaking the glass pane. The detector contains a dual-isolator and is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- Operating instructions by using symbols (European Standard)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 99
- Dual-isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166e/01

Cross-references	Page	Art.No.	Name Type
	202	249213	Glass Pane for MCP5A Series/10pcs. G21140
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	201	245019	Surface Mount Box/MCP5A SR
	202	245012	Surface Mount Box/MCP5A SR3T

245042 Manual Call Point/Red/200/Flexi MCP5A-RP07FF

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	260µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166b/45

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	201	245019	Surface Mount Box/MCP5A SR
	202	245012	Surface Mount Box/MCP5A SR3T

245043 Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector. The detector contains a dual-isolator and is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 99
- Dual-isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166e/01

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	201	245019	Surface Mount Box/MCP5A SR
	202	245012	Surface Mount Box/MCP5A SR3T

245044 Manual Call Point/Red/IP67/200/Glass WCP5A/RP07SG-L017-01

The manual call point according to EN 54-11/A is designed for use on the ADM loop with System Sensor/200 protocol and is activated by breaking the glass pane. The detector is integrated in a red plastic housing for surface mounting, and thanks to its dust and water protected design, it is suitable for use under harsh environmental conditions.

Features

- Operating instructions by symbols (European Standard)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the physical address in the range 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	260µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	93 × 98 × 71 (mm)
Colour	red, RAL 3000
Weight	240g
Approval	LPCB 166b/57

Cross-references	Page	Art.No.	Name Type
	202	249213	Glass Pane for MCP5A Series/10pcs. G21140
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

245045 Manual Call Point/Red/IP67/200/ISM/Glas WCP5A/RP08SG-L017-01

The manual call point according to EN 54-11/A is designed for use on the ADM loop with System Sensor/200 protocol and is activated by breaking the glass pane. The detector is integrated in a red plastic housing for surface mounting, and thanks to its dust and water protected design, it is suitable for use under harsh environmental conditions. The detector is equipped with a dual-isolator.

Features

- Operating instructions by symbols (European Standard)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the physical address in the range 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	93 × 98 × 71 (mm)
Colour	red, RAL 3000
Weight	240g
Approval	LPCB 166e/03

Cross-references	Page	Art.No.	Name Type
	202	249213	Glass Pane for MCP5A Series/10pcs. G21140
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

245015 Manual Call Point/Red/XP95/Flexi 55100-908

The manual call point according to EN 54-11/A is designed for use on the ADM loop with Apollo/Discovery protocol. The detector is activated by pressing in the plastic pane.

A two-coloured LED indicates the activation in red and the fault condition in yellow.

The detector is accommodated in a red plastic housing and can be mounted either on a 60mm flush-mount installation box or on the wall, using the provided surface-mount case.

Features

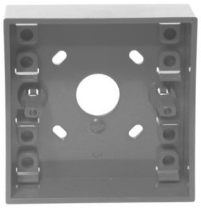
- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Detector housing can be opened only with a special key (provided)
- 7-digit DIL switch for setting the physical address in the range 01 to 126
- Dual-isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	100µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Protection class	IP24
Dimensions W × H × D	
with surface-mount case	89 × 93 × 59 (mm)
on flush-mount installation box	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight (with surface-mount case)	160g
Approvals	LPCB 010w/01 0832-CPD-0796

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

245019 Surface Mount Box/MCP5A SR



The red plastic box is used for surface mounting of Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	red, RAL 3000
Weight	52g

Cross-references	Page	Art.No.	Name Type
	198	245042	Manual Call Point/Red/200/Flexi MCP5A-RP07FF
	197	245040	Manual Call Point/Red/200/Glass MCP5A-RP07FG
	199	245043	Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF
	198	245041	Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG

245012 Surface Mount Box/MCP5A SR3T

The red plastic box is used for surface mounting of the Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx. The box is provided with 3 auxiliary terminals for simple wiring.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	red, RAL 3000
Weight	60g

Cross-references	Page	Art.No.	Name Type
	198	245042	Manual Call Point/Red/200/Flexi MCP5A-RP07FF
	197	245040	Manual Call Point/Red/200/Glass MCP5A-RP07FG
	199	245043	Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF
	198	245041	Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG

249213 Glass Pane for MCP5A Series/10pcs. G21140

The printed glass pane for replacement is inserted for resetting a manual call point MCP5A-RP07FG or MCP5A-RP08FG after activation.

Cross-references	Page	Art.No.	Name Type
	197	245040	Manual Call Point/Red/200/Glass MCP5A-RP07FG
	198	245041	Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG
	200	245044	Manual Call Point/Red/IP67/200/Glass WCP5A/RP07SG-L017-01
	200	245045	Manual Call Point/Red/IP67/200/ISM/Glas WCP5A/RP08SG-L017-01

245018 Flexi Element for MCP/WCP5A PS210

The replacement plastic pane is needed for the Manual Call Points FI700/MCP, MCP5A-RP0xFF and 55100-908 if the original pane has been broken upon activation. Furthermore, the flexi element can be inserted instead of the glass pane in the Manual Call Points MCP5A-RP0xFG and Series WCP5A.

Cross-references	Page	Art.No.	Name Type
	198	245042	Manual Call Point/Red/200/Flexi MCP5A-RP07FF
	199	245043	Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF
	196	245080	Manual Call Point/Red/700/Flexi FI700/MCP
	218	245082	Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP
	201	245015	Manual Call Point/Red/XP95/Flexi 55100-908
	197	245081	Manual Call Point IP67/Red/700 FI700/MCP67

19 Devices for Hazardous Areas

240015 Ionisation Smoke Detector/100/Ex 1151EIS

The Ionisation Smoke Detector 1151EIS for hazardous areas is based on the ionisation principle and is designed for indoor applications using conventional technology. The detector consists of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences. The detector 1151EIS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Output for external remote indicator
- Mechanical theft protection
- Insect screen
- Functionality check by means of test activation with magnet
- Service plug sockets for testing with the Detector Testing Device MOD400R

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Current consumption at 24V	typ. 40µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 to 93% (no condensation)
Radioactive compound	Am241, 0.5µCi (18.5kBq)
Dimensions Ø × H	103 × 42 (mm)
Colour	cream
Weight	104g
Approvals	BASEEFA03ATEX0156X VdS G296051 0832-CPD-0284

Cross-references	Page	Art.No.	Name Type
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	79	251003	Remote Indicator PA58-3
	206	228003	Safety Barrier ES58-2

242015 Thermal RoR Detector/400/Ex 5451EIS

The Thermal RoR Detector 5451EIS for hazardous areas reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 60°C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m. The detector 5451EIS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Output for external remote indicator
- Mechanical theft protection
- Functionality check (test activation) with magnet possible

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Current consumption	typ. 100µA (quiescent)
Alarm temperature	60°C (maximum-heat component)
Ambient temperature	-10°C to +43°C (continuous operation)
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	104 × 54 (mm)
Colour	cream
Weight	80g
Approvals	BASEEFA03ATEX0155X VdS G296050 0832-CPD-0283

Cross-references	Page	Art.No.	Name Type
	139	246008	Detector Base/400/300/100 B401RM
	139	246019	Detector Base 400/300/100 B401DGRM
	79	251003	Remote Indicator PA58-3
	206	228003	Safety Barrier ES58-2

241090 Optical Smoke Detector/Conv/Ex SLR-E-IS

The Optical Smoke Detector SLR-E-IS for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector SLR-E-IS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.

Features

- Output for external remote indicator
- Insect screen

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Current consumption at 24V	typ. 50µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H (incl. base)	100 × 46 (mm)
Colour	cream
Weight	115g
Approvals	BAS01ATEX1281 LPCB 164g/02 0832-CPD-0113

Cross-references	Page	Art.No.	Name Type
	204	246090	Detector Base/Conv/Ex YBN-R/4IS
	79	251003	Remote Indicator PA58-3
	206	228003	Safety Barrier ES58-2

246090 Detector Base/Conv/Ex YBN-R/4IS

The Detector Base YBN-R/4IS for hazardous areas is used to accommodate an intrinsically safe smoke detector SLR-E-IS and is suitable for indoor surface mounting.

Features
- No electronics contained
- Multi-wire terminals with secure screw fitting

Specifications

Ambient temperature	-10°C to +55°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	45g

Cross-references	Page	Art.No.	Name Type
	157	249044	Detector Mounting Bracket MMW1-1
	204	241090	Optical Smoke Detector/Conv/Ex SLR-E-IS
	79	251003	Remote Indicator PA58-3

240023 Ionisation Smoke Detector/60/Ex 55000-212

The Ionisation Smoke Detector 55000-212 for hazardous areas is based on the ionisation principle and is designed for indoor applications using conventional technology. The detector consists of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences. The detector must always be connected via a safety barrier that is approved for the detector. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection
- Insect screen
- Checking with Testset/Conv./S60/Apo 53832-020

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia II T5
Operating voltage	supplied through detector line voltage
Current consumption at 24V	typ. 45µA (quiescent)
Ambient temperature	0°C to +60°C
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	102g
Approvals	EECS ATEX 0073 VdS G298044

Cross-references	Page	Art.No.	Name Type
	206	246023	Detector Base/60/Ex 45681-207
	79	251003	Remote Indicator PA58-3
	206	228003	Safety Barrier ES58-2

246023 Detector Base/60/Ex 45681-207

The Detector Base 45681-207 for hazardous areas is designed to accommodate an intrinsically safe Series 60 automatic smoke detector and is suitable for indoor surface mounting.

Features

- No electronics contained
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1
	205	240023	Ionisation Smoke Detector/60/Ex 55000-212
	79	251003	Remote Indicator PA58-3

228003 Safety Barrier ES58-2

The safety barrier with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of fire detectors in hazardous areas. Due to the galvanic separation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

Features

- Connection of automatic detectors
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- Plastic surface mount case

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC
Operating voltage	supplied through detector line voltage
Quiescent current	approx. 5mA
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	120 × 160 × 90 (mm)
Colour	light grey, similar to RAL 7035
Weight	650g
Approval	BASEEFA98ATEX7343

Cross-references	Page	Art.No.	Name Type
	203	240015	Ionisation Smoke Detector/100/Ex 1151EIS
	205	240023	Ionisation Smoke Detector/60/Ex 55000-212
	204	241090	Optical Smoke Detector/Conv/Ex SLR-E-IS
	203	242015	Thermal RoR Detector/400/Ex 5451EIS

241101 Optical Smoke Detector/200AP/Ex 22051EISE-IV

The Optical Smoke Detector 22051EISE-IV operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use in hazardous areas and is suitable for indoor mounting.

The detector is integrated into an ADM loop with System Sensor/200 protocol via the Safety Barrier Y72221 and the Protocol Interface IST200. Particular attention must be paid to the compliance with country-specific regulations.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features

- Constant sensitivity
- Physical address can be set in the range 01 to 99 by means of 2 decadic rotary switches
- Mechanical theft protection in the base
- Insect screen
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Ignition protection	intrinsically safe
Ex classification	Ex ia IIC T5 / T4 Ga
Current consumption	330µA at 24V
Ambient temperature	-25°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	103 × 43 (mm)
Colour	cream
Weight	110g
Approvals	BASEEFA08ATEX0278X LPCB 199m

Cross-references	Page	Art.No.	Name Type
	144	246038	Detector Base/500/200AP/Ivory B501AP-IV
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	208	228007	Protocol Interface/200 IST200
	207	228006	Safety Barrier/200 Y72221

228006 Safety Barrier/200 Y72221

The zener barrier Y72221 with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to ADM loops using System Sensor/200 protocol. The relevant regulations for installations in hazardous areas must be observed.

Features

- Connection of up to 15 automatic detectors of type 2251EIS
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- DIN rail mounting

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	20 × 110 × 107.5 (mm)

Colour	green
Weight	100g
Approval	BAS00ATEX7087

Cross-references	Page	Art.No.	Name Type
	207	241101	Optical Smoke Detector/200AP/Ex 22051EISE-IV
	208	228007	Protocol Interface/200 IST200

228007 Protocol Interface/200 IST200

The protocol interface is always used together with the Safety Barrier/200 and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the ADM loop using System Sensor/200 protocol.

Features
- Connection of up to 15 automatic detectors of type 2251EIS
- Designed to be integrated into the Surface Mounting Box SMB500

Specifications

Ignition protection	intrinsically safe
Operating voltage	supplied through loop voltage
Ambient temperature	0°C to +60°C
Relative humidity	5 to 95% (no condensation)
Dimensions W × H × D	70 × 70 × 32 (mm)
Weight	155g

Cross-references	Page	Art.No.	Name Type
	207	241101	Optical Smoke Detector/200AP/Ex 22051EISE-IV
	207	228006	Safety Barrier/200 Y72221
	155	249004	Surface Mounting Box SMB500

240025 Ionisation Smoke Detector/XP95/Ex 55000-540

The addressable Ionisation Smoke Detector 55000-540 for hazardous areas is based on the ionisation principle and is designed for indoor use and application on the ADM loop with Apollo/Discovery protocol. The detector consists of sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The detector must always be connected via a Safety Barrier/XP95 approved for the respective detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Permanent evaluation of environmental conditions
- Continuous transmission of the current measured value to the fire detection control panel
- Constant sensitivity
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 280µA (quiescent)
Ambient temperature	-20°C to +40°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	EECS ATEX 0073 LPCB 010q 0832-CPD-0312

Cross-references	Page	Art.No.	Name Type
	210	246027	Detector Base/XP95/Ex 45681-215
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	212	228005	Protocol Interface/XP95 55000-855
	211	228004	Safety Barrier/XP95 29600-098

241024 Optical Smoke Detector/XP95/Ex 55000-640

The Optical Smoke Detector 55000-640 for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

The detector must always be connected via a Safety Barrier/XP95 approved for the respective detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Features

- Permanent evaluation of environmental conditions
- Continuous transmission of the current measured value to the fire detection control panel
- Constant sensitivity
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 340µA (quiescent)
Ambient temperature	-20°C to +40°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	EECS ATEX 0073 LPCB 010q 0832-CPD-0313

Cross-references	Page	Art.No.	Name Type
	210	246027	Detector Base/XP95/Ex 45681-215
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	212	228005	Protocol Interface/XP95 55000-855
	211	228004	Safety Barrier/XP95 29600-098

242036 Thermal Detector/XP95/Ex 55000-440

The Thermal Detector 55000-440 for hazardous areas can be parameterised at the fire detection control panel as rate-of-rise detector with a maximum temperature of 55°C (Class A2R) or as maximum heat detector with an alarm temperature of 55°C (Class A2S). The detector is designed for use on the ADM loop with Apollo/Discovery protocol and is suitable for indoor mounting up to a maximum room height of 6m.

The thermal detector must always be connected via a Safety Barrier/XP95 approved for the respective detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Continuous transmission of the current measured value to the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 300µA (quiescent)
Ambient temperature	-20°C to +40°C (class T5) -20°C to +60°C (class T4) (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	EECS ATEX 0073 LPCB 010p 0832-CPD-0311

Cross-references	Page	Art.No.	Name Type
	210	246027	Detector Base/XP95/Ex 45681-215
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	212	228005	Protocol Interface/XP95 55000-855
	211	228004	Safety Barrier/XP95 29600-098

246027 Detector Base/XP95/Ex 45681-215

The Detector Base 45681-215 for hazardous areas is designed to accommodate a Series XP95 intrinsically safe analogue smoke detector and is suitable for indoor surface mounting.

Features
- Connection to the ADM loop using Apollo/Discovery protocol
- Easy detector addressing through address card in mounting base

- No electronics contained
- Multi-wire terminals with secure screw fitting
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	179	246030	Backplate/Apo 45681-233
	178	246029	Conduit Box/Apo 45681-204
	157	249044	Detector Mounting Bracket MMW1-1
	208	240025	Ionisation Smoke Detector/XP95/Ex 55000-540
	209	241024	Optical Smoke Detector/XP95/Ex 55000-640
	210	242036	Thermal Detector/XP95/Ex 55000-440

228004 Safety Barrier/XP95 29600-098

The Safety Barrier 29600-098 with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to ADM loops using Apollo/Discovery protocol. Due to the galvanic separation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

The number of detectors, that can be connected to the safety barrier, depends on the hardware version, that is marked in the case:

Part No. 71997	max. 1 detector can be connected
Part No. 72157 or 107496:	max. 5 detectors can be connected

Features

- Connection of remote indicators to the detectors possible
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- DIN rail mounting

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Operating voltage	supplied through loop voltage
Ambient temperature	-10°C to +60°C
Approval	EECS ATEX 0073

Cross-references	Page	Art.No.	Name Type
	208	240025	Ionisation Smoke Detector/XP95/Ex 55000-540
	209	241024	Optical Smoke Detector/XP95/Ex 55000-640
	212	228005	Protocol Interface/XP95 55000-855
	210	242036	Thermal Detector/XP95/Ex 55000-440

228005 Protocol Interface/XP95 55000-855

The protocol interface is always used together with a Safety Barrier/XP95 and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the ADM loop using Apollo/Discovery protocol. The number of detectors, that can be connected to the protocol interface, is limited by the safety barrier.

The protocol interface is suitable for snap-on to a 35mm DIN rail.

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Operating voltage	supplied through loop voltage
Current consumption at 24V	1mA
Ambient temperature	-10°C to +60°C
Relative humidity	10 - 95%
Dimensions L × W × H	93 × 20 × 110 (mm)
Colour	green
Weight	100g
Approval	EECS ATEX 0073

Cross-references	Page	Art.No.	Name Type
	208	240025	Ionisation Smoke Detector/XP95/Ex 55000-540
	209	241024	Optical Smoke Detector/XP95/Ex 55000-640
	211	228004	Safety Barrier/XP95 29600-098
	210	242036	Thermal Detector/XP95/Ex 55000-440

245683 Manual Call Point/Red/Conv/Ex DC31

The Manual Call Point DC31 is integrated in a red plastic housing and is used for application in hazardous areas in conventional technology. The detector contains a change-over contact and can be delivered with an alarm resistor and an end-of-line resistor of your choice. The desired resistance value must be specified when ordering, because the entire inner circuitry is sealed.

Thanks to the encapsulated and sealed-in design, a safety barrier is not required if the detector is cabled in compliance with the relevant regulations. The detector can be connected to an ADM loop by using a conventional zone module.

Features

- Robust dust-proof and water-proof plastic housing with a door aperture angle of more than 160°
- Low flammability and UV resistant
- Operating instructions by means of symbols (European standard)
- Latching push button
- Replaceable standardised glass plate
- Plenty of room for cabling

Specifications

Ignition protection	flameproof enclosure encapsulation increased safety
Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C
Protection class	IP66

Dimensions W × H × D	135 × 135 × 61 (mm, without cable glands)
Colour	red, RAL 3000
Weight	500g
Approvals	VdS G206113
	BVS 09 ATEX E 016 X
Ex classification	II 2G Ex emb IIC T6
	II 2D Ex tD A21 IP6X T80°C

20 RF Devices Serie 700

249261 RF Interface/700 FI700/RF/W2W

The RF Interface FI700/RF/W2W serves as a gateway between a Fire Detection Control Panel Series BC216 and radio devices Series FI700/RF. The RF interface communicates with the control panel via the ADM loop with Labor Strauss/700 protocol.

The RF interface can administrate up to 32 automatic detectors, manual call points, modules or signalling devices. The gateway itself occupies one module address on the loop. The device addresses are set either through the operation menu of the RF interface or through the PC software WireLEX. In addition to the parameterisation of the RF system, this program also allows the analysis and graphical indication of signal strength and transmission quality.

The range of up to 600m can be increased to up to 6km by using RF expanders. The RF interface can be linked with a maximum of 7 RF expanders.

Features

- Menu operation by means of buttons and display
- Configuration through menu or PC software
- Status indication via 3 LEDs (communication, fault, battery replacement)
- Integrated dual-isolator
- 2 orthogonal antennas for safe radio communication
- 7 bi-directional data channels
- High range of radio transmission

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	max. 25mA
Frequency band	868MHz
Radio transmission range	max. 600m (to detectors/modules, in free air)
Radio transmission range	max. 1000m (to RF expanders, in free air)
Ambient temperature	-30°C to +50°C
Dimensions W × H × D	120 × 160 × 50 (mm, without antennas)
Colour	white
Weight	350g
Approval	according to EN 54-25

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	215	249264	RF Expander/700 FI700/RF/WE

249264 RF Expander/700 FI700/RF/WE

By means of RF Expanders FI700/RF/WE, the range of an RF Interface FI700/RF/W2W can be increased to up to 6km. The expander serves as a gateway between the RF interface and the radio devices Series FI700/RF.

The expander can administrate up to 16 automatic detectors, manual call points, modules or signalling devices and 6 additional expanders. In this way, a hierarchical RF system with a maximum of 6 levels can be created. The expander itself does not occupy an address. The RF system is configured through the PC software WireLEX.

Features
- Configuration by means of PC software
- 2 orthogonal antennas for safe radio communication
- 7 bi-directional data channels
- High range of radio transmission

Specifications

Supply voltage	10 - 40VDC
Current consumption at 24V	typ. 50mA
Frequency band	868MHz
Radio transmission range	max. 600m (to detectors/modules, in free air)
Radio transmission range	max. 1000m (to RF interface, in free air)
Ambient temperature	-30°C to +50°C
Dimensions W × H × D	120 × 160 × 50 (mm, without antennas)
Colour	white
Weight	200g
Approval	LPCB pending, according to EN 54-25

Cross-references	Page	Art.No.	Name Type
	214	249261	RF Interface/700 FI700/RF/W2W

241082 Optical Detector/700/RF/Complete FI700/RF/O

The radio-linked optical smoke detector FI700/RF/O operates with an optical sensing chamber based on the principle of scattered light. The detector communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. In the configuration of the RF interface, one of 3 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

Two batteries are accommodated in the detector base. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector as well as further operating conditions.

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features
- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX
- Mechanical theft protection in the base
- Double dust trap and insect screen
- Easy function testing by means of magnet or test gas

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	approx. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Sensitivity	
Level 1	2.0%/m
Level 2	2.5%/m
Level 3	3.0%/m
Ambient temperature	-30°C to +55°C
Dimensions Ø × D	110 × 65 (mm, with base)
Colour	white
Weight	130g (without batteries, with base)
Approval	LPCB pending, according to EN 54-7 and EN 54-25

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	224	249218	Lithium Battery 3V CR2032
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

241083 Optical-Thermal Detector/700/RF/Compl. FI700/RF/OT

The radio-linked Optical-Thermal Detector FI700/RF/OT operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise thermal sensor according to EN 54-5, Class A1R. The detector communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. In the configuration of the RF interface, one of 3 sensitivity levels of the optical chamber can be selected, thereby adapting the detector optimally to the respective application.

Two batteries are accommodated in the detector base. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector as well as further operating conditions.

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features

- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX
- Mechanical theft protection in the base
- Double dust trap and insect screen
- Easy function testing by means of magnet or test gas

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	approx. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)

Sensitivity smoke detection unit	
Level 1	2.0%/m
Level 2	2.5%/m
Level 3	3.0%/m
Alarm temperature	+58°C (Class A1R)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +55°C
Dimensions Ø × D	110 × 65 (mm, with base)
Colour	white
Weight	130g (without batteries, with base)
Approval	LPCB pending, according to EN 54-7 and EN 54-25

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	224	249218	Lithium Battery 3V CR2032
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

242081 Thermal Detector/700/RF/Complete FI700/RF/T

The radio-linked Thermal Detector FI700/RF/T reacts to a maximum temperature of 58°C according to EN 54-5 Class A1R. The detector communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. Two batteries are accommodated in the detector base. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. The two-coloured LED indicator with 360° visibility indicates the activated condition of the detector as well as further operating conditions.

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features

- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX
- Mechanical theft protection in the base
- Easy function testing by means of magnet

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	approx. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Alarm temperature	+58°C (Class A1R)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +55°C
Dimensions Ø × D	110 × 65 (mm, with base)
Colour	white
Weight	130g (without batteries, with base)
Approval	LPCB pending, according to EN 54-7 and EN 54-25

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	224	249218	Lithium Battery 3V CR2032
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

245082 Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP

The manual radio call point according to EN 54-11/A is accommodated in a red plastic housing and communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

Two batteries are accommodated in the manual call point. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. A two-coloured LED indicates the activated condition of the detector as well as further operating conditions.

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. Both batteries as well as the special key are included with the manual call point.

Features

- Operating instructions by symbols (European Standard)
- Activation by pressing in plastic pane without breaking it
- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX
- Plastic pane easy to reset

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	approx. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Ambient temperature	-30°C to +55°C
Protection class	IP54 (in connection with mounting box)
Dimensions W × H × D	87 × 87 × 58 (mm, with mounting box)
Colour	flame red, RAL 3000
Weight	200g (without batteries, with mounting box)
Approval	LPCB pending, according to EN 54-11 and EN 54-25

Cross-references	Page	Art.No.	Name Type
	202	245018	Flexi Element for MCP/WCP5A PS210
	223	249215	Lithium Battery 3V CR123
	224	249218	Lithium Battery 3V CR2032
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

249262 Monitor Module 1xIn/700/RF FI700/RF/M1IN

The radio monitor module FI700/RF/M1IN provides a line-monitored input for the connection of contact detectors. With that, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system with radio transmission. The module communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. Two batteries are accommodated in the housing of the module. Normally, the module is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the module. The two-coloured status LED indicates the alarm condition and the fault condition of the module.

The radio module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features

- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX
- Input monitored for wire breakage and short circuit

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	approx. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Ambient temperature	-30°C to +55°C
Dimensions L × W × H	109 × 37 × 29 (mm)
Colour	white
Weight	45g (without batteries)
Approval	LPCB pending, according to EN 54-25

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	224	249218	Lithium Battery 3V CR2032
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

249263 Control Module 1xRel/700/RF FI700/RF/M1REL

The radio control module FI700/RF/M1REL provides a dry relay output for the actuation of external devices. With that, ancillary devices can be easily integrated into a fire detection system with radio transmission, without monitoring the line. The module communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The two-coloured status LED indicates the activated condition and the fault condition of the module.

The radio module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a white housing and is designed for indoor mounting. The module must be powered by an external power supply.

Features

- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX

Specifications

Power supply	10 - 27VDC
Current consumption at 24V	max. 50mA
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Contact rating relay output	max. 3A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +55°C
Dimensions L × W × H	109 × 37 × 29 (mm)
Colour	white
Weight	50g
Approval	LPCB pending, according to EN 54-25

Cross-references	Page	Art.No.	Name Type
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

355181 Sounder/700/RF/Red FI700/RF/WM/SOUR

The radio sounder FI700/RF/WM/SOUR communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The Labor Strauss/700 protocol is used for the communication via the ADM loop.

Two batteries are accommodated in the base of the sounder. Normally, the sounder is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the sounder. The tone is set by means of a DIP switch.

The radio sounder is particularly suitable for applications where cabling is impossible or uneconomical. The sounder is integrated in a red plastic housing and is designed for indoor mounting. The sounder base, a special tool for opening the housing and 2 batteries are included with the sounder.

Features

- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Long battery life of 5 years
- High range of radio transmission
- Adjustable sound level
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	approx. 5 years (main battery, in the normal condition) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Sound level	100dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	200g (without batteries)

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

355191 Sounder/IP66/700/RF/Red FI700/RF/WM66/SOUR

The radio sounder FI700/RF/WM66/SOUR communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The Labor Strauss/700 protocol is used for the communication via the ADM loop.

Two batteries are accommodated in the base of the sounder. Normally, the sounder is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the sounder. The tone is set by means of a DIP switch.

The radio sounder is particularly suitable for applications where cabling is impossible or uneconomical. The sounder is integrated in a red plastic housing, and thanks to its dust and water protected design with protection class IP66, it is suitable for harsh environmental conditions. Two batteries are included with the sounder.

Features

- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Long battery life of 5 years
- Adjustable sound level
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	approx. 5 years (main battery, in the normal condition) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Sound level	100dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP66
Dimensions W × H × D	110 × 110 × 105 (mm)
Colour	red
Weight	300g (without batteries)

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

355188 Sounder-Strobe/700/RF/Red/Red FI700/RF/WM/SOUR/STRR

The radio sounder-strobe FI700/RF/WM/SOUR/STRR communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The Labor Strauss/700 protocol is used for the communication via the ADM loop.

Two batteries are accommodated in the sounder-strobe. Normally, the unit is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the unit. The tone is set by means of a DIP switch. The sounder is always activated together with the strobe.

The radio sounder-strobe is particularly suitable for applications where cabling is impossible or uneconomical. The unit is integrated in a red plastic housing with a red cap. The base, a special tool for opening the housing and 2 batteries are included in the delivery.

Features

- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Long life span of the strobe due to use of LEDs
- Long battery life of 5 years
- Adjustable sound level
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	approx. 5 years (main battery, in the normal condition) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	235g (without batteries)

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

356051 Strobe/700/RF/Red/Red FI700/RF/STRRR

The radio strobe FI700/RF/STRRR communicates with a Fire Detection Control Panel Series BC216 via the RF Interface FI700/RF/W2W. The Labor Strauss/700 protocol is used for the communication via the ADM loop.

Two batteries are accommodated in the base of the strobe. Normally, the strobe is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the strobe.

The radio strobe is particularly suitable for applications where cabling is impossible or uneconomical. The strobe is integrated in a red plastic housing with a red cap and is suitable for indoor and outdoor mounting. The base and two batteries are included with the strobe.

Features
- Long lifespan of the strobe due to use of LEDs
- Long battery life of 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WireLEX

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	approx. 5 years (main battery, in the normal condition) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 600m (free air)
Flash frequency	1Hz or 0.5Hz
Ambient temperature	-10°C to +55°C
Relative humidity	5 - 85% (no condensation)
Protection class	IP54
Dimensions Ø × D	93 × 53 (mm, with base)
Colour	red
Weight	100g (without batteries, with base)

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	215	249264	RF Expander/700 FI700/RF/WE
	214	249261	RF Interface/700 FI700/RF/W2W

249215 Lithium Battery 3V CR123

The 3V-battery is used for the supply of automatic radio detectors, manual radio call points, radio modules and radio-linked signalling devices Series FI700, as well as of the Optical-Thermal Detector 2100RFT-AS.

Features
- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

Cross-references	Page	Art.No.	Name Type
	218	245082	Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP
	219	249262	Monitor Module 1xIn/700/RF FI700/RF/M1IN
	216	241083	Optical-Thermal Detector/700/RF/Compl. FI700/RF/OT
	226	241036	Optical-Thermal Detector/RF/Complete 2100RFT-AS
	215	241082	Optical Detector/700/RF/Complete FI700/RF/O
	220	355181	Sounder/700/RF/Red FI700/RF/WM/SOUR
	221	355191	Sounder/IP66/700/RF/Red FI700/RF/WM66/SOUR
	222	355188	Sounder-Strobe/700/RF/Red/Red FI700/RF/WM/SOUR/STRR
	222	356051	Strobe/700/RF/Red/Red FI700/RF/STRRR
	217	242081	Thermal Detector/700/RF/Complete FI700/RF/T

249218 Lithium Battery 3V CR2032

The 3V battery is used for the supply of automatic radio detectors, manual radio call points and radio modules Series FI700.

Features

- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

Cross-references	Page	Art.No.	Name Type
	218	245082	Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP
	219	249262	Monitor Module 1xIn/700/RF FI700/RF/M1IN
	216	241083	Optical-Thermal Detector/700/RF/Compl. FI700/RF/OT
	215	241082	Optical Detector/700/RF/Complete FI700/RF/O
	217	242081	Thermal Detector/700/RF/Complete FI700/RF/T

21 RF Devices Series 400/500/RDM

249203 RF Interface/4xRel M400RFE-AS

The RF Interface M400RFE-AS serves for the connection of up to 32 automatic or non-automatic radio-linked detectors. The interface is provided with two detector zones, each of them having separate alarm and fault detection relays. Each of these two zones can be assigned up to 16 detectors. The two zones are reported as collective messages to the fire detection control panel either in addressable conventional technology or by means of auxiliary modules via the ADM loop. In addition, an LED for the individual display for each detector is provided by the RF interface.

Features

- Up to 32 detectors can be memorised
- Radio-linked detectors assigned to 2 zones
- Integrated power unit, expandable with stand-by battery
- Individual detector identification via 32 LEDs
- Input for remote reset
- Programming via built-in buttons
- Automatic shift between the two frequency ranges (434MHz and 868MHz)
- 24 bi-directional data channels
- Channels are checked for availability

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	12VA
external supply voltage	10 to 30VDC
Current consumption at power failure	
from 12V stand-by battery	max. 110mA (quiescent), 120mA (alarm)
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Dimensions W × H × D	400 × 400 × 130 (mm, without antenna)
Colour	cream, RAL 9001
Weight (without batteries)	6kg
Approval	VdS G204104

Cross-references	Page	Art.No.	Name Type
	249	222013	Detector Reset Module MQZ1000-1
	227	245023	Manual Call Point/Blue/Hausalarm/RF M400DKMB-AS
	227	245022	Manual Call Point/Red/RF M400DKMR-AS
	226	241036	Optical-Thermal Detector/RF/Complete 2100RFT-AS

249202 RF Interface/500/200 M500RFE-AS

The RF Interface M500RFE-AS constitutes a gateway between radio-linked detectors and a fire detection control panel. Communication with the control panel is established via the ADM loop using System Sensor/200 protocol.

Up to 99 automatic detectors and up to 98 manual call points can be addressed by the RF interface. One module address on the ADM loop is assigned to the gateway. In the teach-in phase, the detector addresses have to be configured either automatically or manually via the operating menu.

Features
- Operation via keypad and alphanumeric display
- Multilingual operation menu
- Automatic teach-in process for configuration of detectors
- Protection against unauthorised access by 6-digit code
- Display of signal level of each detector
- Status display via 3 LED indicators (operation, alarm, fault)
- Integrated dual-isolator
- Automatic change-over between the two frequencies (434MHz and 868MHz)
- 24 bi-directional data channels
- Channels checked for availability

Specifications

Supply voltage	10 - 30VDC
Current consumption ext. supply	max. 80mA (at 24V)
Current consumption from loop	325µA (quiescent)
Radio transmission range	max. 300m (free air)
Ambient temperature	-10°C to +55°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	210 × 270 × 70 (mm)
Colour	white/black
Weight	930g
Approval	VdS G208132

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	227	245023	Manual Call Point/Blue/Hausalarm/RF M400DKMB-AS
	227	245022	Manual Call Point/Red/RF M400DKMR-AS
	226	241036	Optical-Thermal Detector/RF/Complete 2100RFT-AS

241036 Optical-Thermal Detector/RF/Complete 2100RFT-AS

The radio-linked detector 2100RFT-AS contains an optical sensing chamber on the principle of scattered light and a maximum heat detector with the alarm temperature set at 58°C. The alarm is radio-transmitted to the RF Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).

The radio-linked detector is particularly suitable for applications where cabling is not possible or inefficient. The detector is designed for indoor mounting and is delivered with a mounting base, however, batteries are not included.

Features
- Extremely low quiescent current consumption
- Sealed electronics prevents false alarms caused by environmental influences
- Insect screen
- Alarm display on detector
- Status message at the end of battery lifespan

Specifications

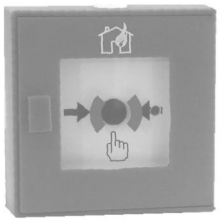
Voltage supply	2 lithium batteries 3V, type CR123
Battery lifespan	approx. 1.5 years
Alarm temperature	58°C
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	140 × 55 (mm)
Colour	white
Weight	187g (without batteries)

Approval	VdS G204105

Cross-references	Page	Art.No.	Name Type
	223	249215	Lithium Battery 3V CR123
	225	249203	RF Interface/4xRel M400RFE-AS
	225	249202	RF Interface/500/200 M500RFE-AS

245022 Manual Call Point/Red/RF M400DKMR-AS

The radio-linked manual call point according to EN 54-11/B is accommodated in a red plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).



The radio-linked detector is particularly suited for applications, where cabling is not possible or inefficient. The battery is provided with the detector, which is suited for indoor mounting.

Features

- Operating instructions by symbols (European Standard)
- Optical indication of activation via LED
- Latching push button
- Standardised glass pane, easy to replace
- Continuous status messages
- 24 bi-directional data channels
- Unique code generated out of several million options
- Channels are checked for availability
- Monitored battery voltage
- Sabotage message when door is open

Specifications

Supply voltage	3.6V (lithium battery)
Battery lifespan	approx. 1.5 years
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 36 (mm)
Colour	red, RAL 3000
Weight	250g (without battery)
Approval	VdS G204103

Cross-references	Page	Art.No.	Name Type
	232	310021	Lithium Battery 3,6V/2,2AH
	225	249203	RF Interface/4xRel M400RFE-AS
	225	249202	RF Interface/500/200 M500RFE-AS

245023 Manual Call Point/Blue/Hausalarm/RF M400DKMB-AS

The radio-linked manual call point according to EN 54-11/B is accommodated in a blue plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).

The radio-linked detector is particularly suited for applications, where cabling is not possible or inefficient. The battery is provided with the detector, which is suited for in-door mounting.

Features
- Inscription field 'HAUSALARM'
- Optical indication of activation via LED indicator
- Latching push button
- Standardised glass pane, easy to replace
- Continuous status messages
- 24 bi-directional data channels
- Unique code generated out of several million options
- Channels are checked for availability
- Monitored battery voltage
- Sabotage message when door is open

Specifications

Supply voltage	3.6V (lithium battery)
Battery lifespan	approx. 1.5 years
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 36 (mm)
Colour	blue, RAL 5015
Weight	250g (without battery)

Cross-references	Page	Art.No.	Name Type
	232	310021	Lithium Battery 3,6V/2,2AH
	225	249203	RF Interface/4xRel M400RFE-AS
	225	249202	RF Interface/500/200 M500RFE-AS

249201 RF Interface/4xRel FUIF511-27D

The RF Interface FUIF511-27D is used for the connection of up to 32 automatic or non-automatic radio-linked detectors. The interface is provided with two detector zones, each of them having separate alarm and fault detection relays. Each of these two zones can be assigned up to 16 detectors. The two zones are reported as collective messages to the fire detection control panel either in addressable conventional technology or by means of auxiliary modules via the ADM loop. In addition, an LED for the individual display for each detector is provided by the RF interface.

Features
- Up to 32 detectors can be memorised
- Radio-linked detectors assigned to 2 zones
- Integrated power supply unit with optional stand-by battery
- Individual detector identification via 32 LEDs
- Input for remote reset
- Programming via built-in buttons
- Automatic shift between the two frequency ranges (434MHz and 868MHz)
- 24 bi-directional data channels
- Channels are checked for availability

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	12VA
external supply voltage	10 to 30VDC
Current consumption at power failure	
from 12V stand-by battery	max. 110mA (quiescent), 120mA (alarm)

Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +60°C
Dimensions W × H × D	300 × 390 × 140 (mm, without antenna)
Colour	cream, RAL 9001
Weight (without battery)	8.7kg
Approval	VdS G206015

Cross-references	Page	Art.No.	Name Type
	230	246040	Detector Base/Conv/RF 215-27D
	249	222013	Detector Reset Module MQZ1000-1
	231	245021	Manual Call Point/Blue/Hausalarm/RF HM/152-27D
	231	245020	Manual Call Point/Red/RF HFM/153-27D
	229	241029	Optical Smoke Detector/65/RF 55000-680
	229	242029	Thermal RoR Detector/65/RF 55000-480

241029 Optical Smoke Detector/65/RF 55000-680

The Optical Smoke Detector 55000-680 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use in the radio detector base 215-27D and is suitable for indoor mounting. The alarm is radio-transmitted to the RF Interface FUIF511-27D (conventional technology).

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical.

Features

- Extremely low quiescent current
- Sealed electronics prevents false alarms caused by the environment
- Insect screen
- Alarm indication on detector

Specifications

Operating voltage	supplied through detector base
Battery life span	approx. 1.5 years (batteries are accommodated in the detector base)
Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	VdS G206017 0786-CPD-20227

Cross-references	Page	Art.No.	Name Type
	230	246040	Detector Base/Conv/RF 215-27D
	228	249201	RF Interface/4xRel FUIF511-27D

242029 Thermal RoR Detector/65/RF 55000-480

The radio-linked Thermal RoR Detector 55000-480 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for use in the radio detector base 215-27D and is suitable for indoor mounting up to a maximum room height of 7.5m. The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The alarm is radio-transmitted to the RF Interface FUIF511-27D (conventional technology).

Features
- Extremely low quiescent current
- Sealed electronics prevents false alarms caused by the environment
- Alarm indication on detector

Specifications

Operating voltage	supplied through detector base
Battery life span	approx. 1.5 years (batteries are accommodated in the detector base)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	VdS G206016 0786-CPD-20226

Cross-references	Page	Art.No.	Name Type
	230	246040	Detector Base/Conv/RF 215-27D
	228	249201	RF Interface/4xRel FUIF511-27D

246040 Detector Base/Conv/RF 215-27D

The two-piece detector base 215-27D contains a radio module for the communication with the RF Interface FUIF511-27D and is designed to accommodate an automatic radio-linked fire detector. For easy installation and for changing the batteries, the bottom part can be removed and is provided with a bayonet coupling for the detector base. The detector base is delivered with batteries and is suitable for indoor mounting.

Features
- Continuous status messages
- 24 bi-directional data channels
- Unique code made up out of several million options
- Channels are checked for availability
- Monitored battery voltage
- Approx. 1.5 years life span of lithium block battery
- Sabotage message when detector is removed

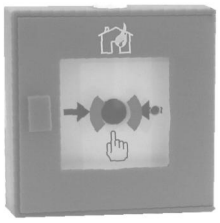
Specifications

Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Frequency bands	434 and 868MHz
Radio transmission range	max. 300m (free air)
Colour	white
Weight	160g (without batteries)
Approvals	VdS G206016 VdS G206017

Cross-references	Page	Art.No.	Name Type
	232	310020	Lithium Battery 9V/1,2AH
	229	241029	Optical Smoke Detector/65/RF 55000-680
	228	249201	RF Interface/4xRel FUIF511-27D
	229	242029	Thermal RoR Detector/65/RF 55000-480

245020 Manual Call Point/Red/RF HFM/153-27D

The radio-linked manual call point according to EN 54-11/B is accommodated in a red plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF Interface FUIF511-27D (conventional technology).



The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The manual call point is delivered with a battery and is suitable for indoor mounting.

Features
- Operating instructions by means of symbols (European Standard)
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Continuous status messages
- 24 bi-directional data channels
- Unique code made up out of several million options
- Channels are checked for availability
- Monitored battery voltage
- Sabotage message when door is open

Specifications

Power supply	3.6V (Lithium battery)
Battery life span	approx. 1.5 years
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +60°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 37 (mm)
Colour	red, RAL 3000
Weight	250g (without battery)
Approval	VdS G204014

Cross-references	Page	Art.No.	Name Type
	232	310021	Lithium Battery 3,6V/2,2AH
	228	249201	RF Interface/4xRel FUIF511-27D

245021 Manual Call Point/Blue/Hausalarm/RF HM/152-27D

The radio-linked manual call point according to EN 54-11/B is accommodated in a blue plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF Interface FUIF511-27D (conventional technology).

The radio detector is particularly suitable for applications where cabling is impossible or uneconomical. The manual call point is delivered with a battery and is suitable for indoor mounting.

Features
- Function marking "HAUSALARM"
- Optical activation indication by means of LED
- Latching push button
- Easy to replace standardised glass plate
- Continuous status messages
- 24 bi-directional data channels
- Unique code made up out of several million options
- Channels are checked for availability
- Monitored battery voltage
- Sabotage message when door is open

Specifications

Power supply	3.6V (Lithium battery)
Battery life span	approx. 1.5 years
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +60°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 37 (mm)
Colour	blue
Weight	250g (without battery)
Approval	VdS G105508

Cross-references	Page	Art.No.	Name Type
	232	310021	Lithium Battery 3,6V/2,2AH
	228	249201	RF Interface/4xRel FUIF511-27D

310020 Lithium Battery 9V/1,2AH

The litihium battery is needed for the supply of the radio-linked detector base 215-27D. Each detector base requires 2 batteries, which always have to be replaced at the same time.

Features

- High-quality lithium battery
- Low self-discharge
- Long life span of typ. 1.5 years when used in radio-linked detector base 215-27D
- Shelf life min. 5 years

Cross-references	Page	Art.No.	Name Type
	230	246040	Detector Base/Conv/RF 215-27D

310021 Lithium Battery 3,6V/2,2AH

The lithium battery is needed for the supply of a radio-linked manual call point.

Features

- High-quality lithium battery
- Low self-discharge
- Long life span of typ. 1.5 years when used in radio-linked manual call point
- Shelf life min. 5 years

Cross-references	Page	Art.No.	Name Type
	231	245021	Manual Call Point/Blue/Hausalarm/RF HM/152-27D
	227	245023	Manual Call Point/Blue/Hausalarm/RF M400DKMB-AS
	231	245020	Manual Call Point/Red/RF HFM/153-27D
	227	245022	Manual Call Point/Red/RF M400DKMR-AS

22 Special Detectors

242010 Thermal Max Detector/IP67/Conv SWM-1KL-57

The maximum heat detector SWM-1KL-57 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.

The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features

- Individual detector addressing by connecting an optional address module
- Alarm LED on detector housing
- Output for external remote indicator
- Metal PG-screws for water-proof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 57°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	79	251003	Remote Indicator PA58-3

242012 Thermal Max Detector/IP67/Conv SWM-1KL-80

The maximum heat detector SWM-1KL-80 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.

The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features

- Individual detector addressing by connecting an optional address module
- Alarm LED on detector housing
- Output for external remote indicator
- Metal PG-screws for waterproof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 80°C

Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	79	251003	Remote Indicator PA58-3

242013 Thermal Max Detector/IP67/Conv SWM-1KL-100

The maximum heat detector SWM-1KL-100 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.

The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features

- Individual detector addressing by connecting an optional address module
- Alarm LED on detector housing
- Output for external remote indicator
- Metal PG-screws for waterproof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 100°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	79	251003	Remote Indicator PA58-3

242014 Thermal Max Detector IP67/Conv SWM-1KL-140

The maximum heat detector SWM-1KL-140 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The detector can be connected to an ADM loop by using a conventional zone module.

The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features
- Individual detector addressing by connecting an optional address module
- Metal PG-screw for waterproof insertion of the connecting cables

Specifications

Operating voltage	supply through the detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	140°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	79	251003	Remote Indicator PA58-3

243010 Flame Detector/IR2 16581

The Flame Detector 16581 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. By means of two independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared light.

Features
- High immunity to deceptive alarms
- Applicable in conventional technology
- Connection to an ADM loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 28VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A at 50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	1 - 2.7µm
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions L × W × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 729a/07 0832-CPD-0821

Cross-references	Page	Art.No.	Name Type
	237	249141	Mounting Bracket/Flame Detector 7127

243011 Flame Detector/IR3 16589

The Flame Detector 16589 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. By means of three independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is particularly insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared light.

Features

- Very high immunity to deceptive alarms
- Applicable in conventional technology
- Connection to an ADM loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 30VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A at 50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	0.75 - 2.7µm
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions L × W × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 729a/01 0832-CPD-0595

Cross-references	Page	Art.No.	Name Type
	237	249141	Mounting Bracket/Flame Detector 7127

243012 Flame Detector/UVIR2 16591

The Flame Detector 16591 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. Thanks to the combination of two independent infrared sensors for different wavelengths and an UV sensor, the detector can particularly safely distinguish between fire situations and deceptive variables. Therefore, it is extremely insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared and UV light.

Features
- Highest immunity to deceptive alarms
- Applicable in conventional technology
- Connection to an ADM loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 30VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A at 50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	1 - 2.7µm (infrared) 185 - 260nm (UV)
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions L × W × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 729a/12 0832-CPD-0970

Cross-references	Page	Art.No.	Name Type
	237	249141	Mounting Bracket/Flame Detector 7127

249141 Mounting Bracket/Flame Detector 7127

The stainless steel mounting bracket 7127 is used for mounting of a Flame Detector Series 16000 and for the stepless horizontal and vertical adjustment to the monitoring area.

Specifications

Adjustment range vertical	0 to -45°
Adjustment range horizontal	±45°
Dimensions L × W × H	82 × 98 × 90 (mm)
Weight	650g

Cross-references	Page	Art.No.	Name Type
	235	243010	Flame Detector/IR2 16581
	236	243011	Flame Detector/IR3 16589
	236	243012	Flame Detector/UVIR2 16591

244022 Beam Smoke Detector/Conv 6500R

The Beam Smoke Detector 6500R is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application in conventional technology and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector
- Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	10.2 to 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205034 (EN 54-12)

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	249	222013	Detector Reset Module MQZ1000-1
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK
	241	244024	Reflector For 6500/75-100m BEAMLRK
	242	244026	Surface Mounting Box For 6500 BEAMSMK

244023 Beam Smoke Detector+Test/Conv 6500RS

The Beam Smoke Detector 6500RS is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application in conventional technology and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam.

For easy functional testing, the detector can be remotely activated by the fire detection control panel during maintenance. This test simulates a light obscuration by means of an integrated test filter.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features
- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector
- Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	15 to 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Current consumption test filter	max. 500mA
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205034 (EN 54-12)

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	249	222013	Detector Reset Module MQZ1000-1
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK
	241	244024	Reflector For 6500/75-100m BEAMLRK
	242	244026	Surface Mounting Box For 6500 BEAMSMK

244020 Beam Smoke Detector/200 6500

The Beam Smoke Detector 6500 is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application on the ADM loop using System Sensor/200 protocol and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam. The Beam Smoke Detector 6500 is supplied via the ADM loop and does not need an external power supply.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features
- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Integrated dual-isolator, activation by removal of two jumpers

- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector
- Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	supplied through loop voltage
Current consumption on the loop	2mA (quiescent), 8mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205033 (EN 54-12)

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK
	241	244024	Reflector For 6500/75-100m BEAMLRK
	242	244026	Surface Mounting Box For 6500 BEAMSMK

244021 Beam Smoke Detector+Test/200 6500S

The Beam Smoke Detector 6500S is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application on the ADM loop using System Sensor/200 protocol and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam. The Beam Smoke Detector 6500S can be connected directly to the ADM loop without external power supply – except for powering the test unit.

For easy functional testing, the detector can be remotely activated by the fire detection control panel during maintenance. This test simulates a light obscuration by means of an integrated test filter. The test unit requires its own external power supply, it cannot be supplied by the loop.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Integrated dual-isolator, activation by removal of two jumpers
- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector
- Test filter for optimal commissioning included in delivery

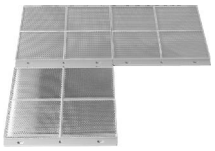
Specifications

Operating voltage	supplied through loop voltage
Current consumption on the loop	2mA (quiescent), 8mA (active)
Operating voltage test filter	15 to 32VDC
Current consumption test filter	max. 500mA
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205033 (EN 54-12)

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK
	241	244024	Reflector For 6500/75-100m BEAMLRK
	242	244026	Surface Mounting Box For 6500 BEAMSMK

244024 Reflector For 6500/75-100m BEAMLRK

The reflector (mirror) is needed for extending the surveillance range of a Beam Smoke Detector Series 6500 from 70 to 100m. The reflector consists of 3 parts, which are mounted together with the mirror that comes enclosed with the detector.



Specifications

Material	plastics
Dimensions W × H × D	200 × 230 × 10 (mm), single unit
Dimensions W × H	400 × 460 (mm), total reflecting area

Cross-references	Page	Art.No.	Name Type
	239	244020	Beam Smoke Detector/200 6500
	237	244022	Beam Smoke Detector/Conv 6500R
	240	244021	Beam Smoke Detector+Test/200 6500S
	238	244023	Beam Smoke Detector+Test/Conv 6500RS
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK

244025 Mounting Bracket/Swivel For 6500 BEAMMMK

The mounting accessory is used to install the Beam Smoke Detector Series 6500 or the reflector for application under difficult conditions (slope of the ceiling, etc.). Depending on the application, the multi-mount kit may be used for both the beam smoke detector and for the reflector. If the reflector must be used in connection with the multi-mount kit, the surveillance range is limited to 70 meters.

Features

- Three-dimensional adjustment of the bracket possible
- Mounting alternatively on ceiling or wall

Cross-references	Page	Art.No.	Name Type
	239	244020	Beam Smoke Detector/200 6500
	237	244022	Beam Smoke Detector/Conv 6500R
	240	244021	Beam Smoke Detector+Test/200 6500S
	238	244023	Beam Smoke Detector+Test/Conv 6500RS
	241	244024	Reflector For 6500/75-100m BEAMLRK

244026 Surface Mounting Box For 6500 BEAMSMK

The Surface Mounting Box BEAMSMK allows for the surface mounting of the Beam Smoke Detector Series 6500 or for the mounting of the detector in combination with the Multi-Mount Kit BEAMMMK.

Specifications

Material	plastics
Dimensions W × H × D	178 × 230 × 51 (mm)

Cross-references	Page	Art.No.	Name Type
	239	244020	Beam Smoke Detector/200 6500
	237	244022	Beam Smoke Detector/Conv 6500R
	240	244021	Beam Smoke Detector+Test/200 6500S
	238	244023	Beam Smoke Detector+Test/Conv 6500RS
	241	244025	Mounting Bracket/Swivel For 6500 BEAMMMK

244610 Beam Smoke Detector/Conv FR2000

The Beam Smoke Detector FR2000 operates on the infra-red principle and serves for the surveillance of open areas with a range of 10m to 100m. The detector consists of separate sender and receiver units and a control unit. Slow changes of the operating conditions (e.g., contamination of the optics) do not result in false alarms but are compensated by the automatic drift compensation. The connection is established in conventional technology via terminals inside the control unit housing. Connection to an ADM loop is achieved via auxiliary modules. A separate power supply is required.

Sender, receiver and control unit are integrated in sheet steel housings, the detector is suitable for indoor mounting.

Features

- Detection of clear and dark smoke
- Sender projects a modulated infra-red beam to the receiver
- Received signal is analysed and compared with the stored reference value
- Automatic calibration of sensitivity to compensate for ageing and contamination
- LED display on the receiver for operation, alarm and fault
- LED display on sender and receiver serve as adjusting aid for amplification, signal interruption, signal high and signal low
- Relays for reporting to the superior fire detection control panel
- Mounting brackets for wall and ceiling mounting
- Test filter for easy commissioning

Specifications

Supply voltage	11.5 to 28VDC
Current consumption at 24V	8mA (quiescent), 16mA (active)
Contact load	32V/1A
Ambient temperature	-20°C to +55°C
Protection class	IP50
Dimensions	
Sender unit Ø × L	60 × 102 (mm)
Receiver unit Ø × L	60 × 102 (mm)
Control unit W × H × D	210 × 265 × 85 (mm)
Weight sender	0.5kg
Weight receiver	0.5kg
Weight control unit	2.1kg
Approval	VdS G297058

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	249	222013	Detector Reset Module MQZ1000-1

244637 Linear Heat Detector Unit/Conv LWM-1

The heat detection unit LWM-1 forms, together with the sensing cable, a linear thermal detection system. The sensing cable consist of 4 copper wires, which are isolated with a material with a negative temperature coefficient.

The resistance of the sensor wires is permanently monitored. Thereby, an exceeding of the maximum temperature (thermal maximum function) or a sudden temperature rise (rate-of-rise function) at any point of the sensing cable can be detected.

Therefore, the thermal detection system is ideally suited for monitoring of garages, cold storage houses, tunnels, depots, false floors and all areas and rooms, which are difficult to access or are in difficult environmental conditions.

The activation temperature of the maximum alarm can be set with a 15-step switch, whereas the activation threshold of the differential alarm can be adjusted with two switches in 16 steps. Thereby, the heat detection unit can be easily adapted to the respective application. Four LEDs (operation, maximum alarm, differential alarm, fault) indicate the actual condition of the heat detection unit. The unit can be reset either by interruption of the supply voltage, actuation of the external reset input or via the internal 'Reset' button. Two test buttons (alarm and fault test as well as LED test) allow an electrical system test.

The heat detection unit is accommodated in a plastic housing. The connection to the fire detection control panel is carried out in conventional technology via one dry contact for alarm and one for fault.

Features

- Length of sensing cable up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- High security against false alarms, also in difficult environmental conditions
- Easy mounting, commissioning and maintenance
- Heat detection unit can be mounted up to 500m away from sensing cable

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24VDC	25mA (quiescent and active)
Ambient temperature	-20°C to +50°C
Protection class	IP65
Dimensions W × H × D	200 × 120 × 80 (mm)

Material	ABS
Colour	light grey, RAL 7035
Weight	550g
Approval	VdS G205066

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	249	222013	Detector Reset Module MQZ1000-1
	244	244622	Sensing Cable/Black/Nylon SK1800011
	244	244628	Sensing Cable/Blue SK11800010
	245	244624	Sensing Cable/Stainless Steel SK11800013

244628 Sensing Cable/Blue SK11800010

The blue Alarmline sensing cable consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.

The blue sensing cable is used in monitored zones, where an increased exposure to dust and humidity can be expected.

Features
- Length of sensing cable up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- Resistant against dust and humidity
- Easy to install

Specifications

Outer diameter	3.2mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.No.	Name Type
	243	244637	Linear Heat Detector Unit/Conv LWM-1
	246	244629	Mounting Base TC358
	246	244630	Mounting Clip 3040/LGK

244622 Sensing Cable/Black/Nylon SK1800011

The black Alarmline sensing cable with nylon coating consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.

The black sensing cable with nylon coating has a high resistance against chemical and biological agents. Therefore, it is applied in areas, where acidic, alkaline or solvent fumes can occur. In addition, the cable is UV-resistant and therefore suitable for outdoor application.

Features
- Length of sensing cable up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- Resistant against chemical and biological agents
- Suitable for outdoor application
- Easy to install

Specifications

Outer diameter	4.8mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.No.	Name Type
	243	244637	Linear Heat Detector Unit/Conv LWM-1
	246	244629	Mounting Base TC358

244624 Sensing Cable/Stainless Steel SK11800013

The Alarmline sensing cable with a stainless steel meshwork consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.

The sensing cable with a stainless steel meshwork has a high resistance against chemical and biological agents and is additionally protected against rough, mechanical strains.

Features
- Length of sensing cable up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- Resistant against chemical and biological agents as well as mechanical strains
- Easy to install

Specifications

Outer diameter	5.8mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.No.	Name Type
	243	244637	Linear Heat Detector Unit/Conv LWM-1
	246	244629	Mounting Base TC358

244638 Interconnector/LWM ZV22-11800-103

The interconnector for temperature resistant sensing cables consists of one white and one black shrink tube as well as small red shrink tubes and is used for connection of two sensing cables or for integration of an additional cable section.

Cross-references	Page	Art.No.	Name Type
	244	244622	Sensing Cable/Black/Nylon SK1800011
	244	244628	Sensing Cable/Blue SK11800010
	245	244624	Sensing Cable/Stainless Steel SK11800013

244639 Termination Connector/LWM AV22-11800-102

The termination connector for temperature resistant sensing cables, which consists of a white inner layer and a black end cap, is used for hermetic sealing of sensing cable ends.

Cross-references	Page	Art.No.	Name Type
	244	244622	Sensing Cable/Black/Nylon SK1800011
	244	244628	Sensing Cable/Blue SK11800010
	245	244624	Sensing Cable/Stainless Steel SK11800013

244629 Mounting Base TC358

The mounting base is used for mounting the temperature-resistant sensing cable to concrete ceilings. For installation, the mounting base is fixed in a hole with a 6mm diameter that has to be drilled into the ceiling, and is mounted in a distance of 1cm to the ceiling. The sensing cable is fastened to the base with a cable tie.

Cross-references	Page	Art.No.	Name Type
	244	244622	Sensing Cable/Black/Nylon SK1800011
	244	244628	Sensing Cable/Blue SK11800010
	248	244634	Sensing Cable/SKM/Black SK-SCHWARZ
	248	244633	Sensing Cable/SKM/Red SK-ROT
	245	244624	Sensing Cable/Stainless Steel SK11800013

244630 Mounting Clip 3040/LGK

The insulating grip saddle is used for mounting the temperature-resistant sensing cable to concrete ceilings. Please note that the mounting clip has a limited resistance against acids and solvents. Therefore, it is not recommended for use in environments where sensing cables either with black nylon coating or stainless steel meshwork are usually applied.

Cross-references	Page	Art.No.	Name Type
	244	244628	Sensing Cable/Blue SK11800010
	248	244634	Sensing Cable/SKM/Black SK-SCHWARZ
	248	244633	Sensing Cable/SKM/Red SK-ROT

244631 Linear Heat Detector Unit/Conv SKM-03

The linear heat detection system according to EN 54-5, Class C (max. room height 6m) allows the secure detection of maximum temperature exceedances over the entire length of the sensor cable. The connection can be established via dry relay contacts to a conventional detector line or in modern ring-bus technology via appropriate modules with external power supply.

Features

- Sensor cables up to 300m length can be connected
- Detection of exceeding temperatures at any point of the sensing cable
- Easy-to-maintain system
- Separate alarm and fault indication
- Alarm indication according to DIN 14623
- Easy commissioning

Specifications

Operating voltage	16 to 28VDC
Current consumption at 24VDC	28mA (quiescent), 58mA (alarm)
Ambient temperature	-25°C to +50°C
Protection class	IP65
Dimensions W × H × D	105 × 105 × 65 (mm)
Material	polycarbonate
Colour	grey white, RAL 9002
Weight	300g
Approval	VdS G203076

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	248	244634	Sensing Cable/SKM/Black SK-SCHWARZ
	248	244633	Sensing Cable/SKM/Red SK-ROT

244632 Linear Heat Detector Unit/XP95 SKM-95

The linear heat detection system according to EN 54-5, Class C (max. room height 6m) allows the secure detection of maximum temperature exceedances over the entire length of the sensor cable. The system can be directly connected to an ADM loop using Apollo/Discovery protocol. Thanks to the integrated dual-isolator, the loop is disconnected at short circuit. The system is powered via the loop.

Features

- Sensor cables up to 300m length can be connected
- Detection of exceeding temperatures at any point of the sensing cable
- Easy-to-maintain system
- Separate alarm and fault indication
- Alarm indication according to DIN 14623
- Easy commissioning

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24VDC	2mA (quiescent), 3.2mA (alarm)
Ambient temperature	-25°C to +50°C
Protection class	IP65
Dimensions W × H × D	105 × 105 × 65 (mm)
Material	polycarbonate
Colour	grey white, RAL 9002
Weight	300g
Approval	VdS G203077

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	248	244634	Sensing Cable/SKM/Black SK-SCHWARZ
	248	244633	Sensing Cable/SKM/Red SK-ROT

244633 Sensing Cable/SKM/Red SK-ROT

The red standard sensor cable comprises an internal and an external conductor, the external conductor is designed as wire mesh. A synthetic material with a negative temperature coefficient is used for isolation, i.e., the isolator resistance decreases with increasing temperature. At the end of the sensor cable the conductor is connected to a termination box with a defined end-of-line resistance. The entire line is continuously monitored for wire breakage and short circuit.

Features
- Sensor cable length up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- Easy installation

Specifications

Outer diameter	3.25mm
Tensile strength	< 200N
Cable type	plastic coaxial cable
Weight of sensor cable	1.6kg per 100m

Cross-references	Page	Art.No.	Name Type
	246	244631	Linear Heat Detector Unit/Conv SKM-03
	247	244632	Linear Heat Detector Unit/XP95 SKM-95
	246	244629	Mounting Base TC358
	246	244630	Mounting Clip 3040/LGK

244634 Sensing Cable/SKM/Black SK-SCHWARZ

The black sensor cable is provided with an additional synthetic jacket. It is therefore acid and alkaline resistant and can be used in harsh environmental conditions. It comprises an internal and an external conductor, the external conductor is designed as wire mesh. A synthetic material with a negative temperature coefficient is used for isolation, i.e., the isolator resistance decreases with increasing temperature. At the end of the sensor cable the conductor is connected to a termination box with a defined end-of-line resistance. The entire line is continuously monitored for wire breakage and short circuit.

Features
- Sensor cable length up to 300m
- Detection of exceeding temperatures at any point of the sensing cable
- Easy installation

Specifications

Outer diameter	4mm
Tensile strength	< 200N
Cable type	Synthetic coaxial cable with nylon jacket
Weight of sensor cable	3.0kg per 100m

Cross-references	Page	Art.No.	Name Type
	246	244631	Linear Heat Detector Unit/Conv SKM-03
	247	244632	Linear Heat Detector Unit/XP95 SKM-95
	246	244629	Mounting Base TC358
	246	244630	Mounting Clip 3040/LGK

241603 Optical Battery Smoke Detector FL10022H

The battery-powered optical smoke detector is suitable for application in houses, apartments, bedrooms, nurseries and halls. The mounting base and a battery are included in the delivery.

Features

- Integrated sounder
- Test button for testing the battery
- Battery removal protection
- Possible network with up to 30 additional detectors
- Easy installation
- Compact, appealing design

Specifications

Operating voltage	9V block battery
Recommended batteries	GP Super Alkaline, # 1604 A Eveready Alkaline, # 522 Duracell, # MN 1604
Sound level	approx. 85dB at 3m distance
Ambient temperature	0°C to +50°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	110 × 40 (mm)
Colour	white
Weight	150g
Approval	VdS G200054

222013 Detector Reset Module MQZ1000-1

The detector reset module is needed for the connection of special detectors with separate power supply (e.g., RF interfaces, aspiration smoke detection systems, beam smoke detectors) to detector lines in addressable conventional technology. The componentry allows for the resetting of an activated special detector by resetting the corresponding detector zone at the fire detection control panel. Depending on the connection, both detectors with integrated reset input as well as detectors which are reset by disconnecting the power supply, can be reset.

Features

- Integrated processing logic for the detector line signal
- Protection circuit for supply of detector
- LED display for signalling the activation

Specifications

Operating voltage	20 to 31VDC
Output current	max. 1A
Current consumption at 24V	1mA (quiescent) 20mA (active)
Relay contact rating	1A/60V/30W
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	70 × 45 × 17 (mm)
Weight	approx. 40g

Cross-references	Page	Art.No.	Name Type
	237	244022	Beam Smoke Detector/Conv 6500R
	242	244610	Beam Smoke Detector/Conv FR2000
	238	244023	Beam Smoke Detector+Test/Conv 6500RS
	243	244637	Linear Heat Detector Unit/Conv LWM-1
	246	244631	Linear Heat Detector Unit/Conv SKM-03
	228	249201	RF Interface/4xRel FUIF511-27D
	225	249203	RF Interface/4xRel M400RFE-AS
	250	244181	Smoke Aspiration System Housing TP-1/A
	252	244300	Smoke Aspiration System Housing TT-1
	254	244155	Smoke Aspiration System T-SS

23 Smoke Aspiration Systems

244181 Smoke Aspiration System Housing TP-1/A

The Smoke Aspiration System Housing TP-1/A is used for monitoring one or two independent areas. The housing is prepared for connection of one pipe network; by knocking out the second aspiration hole, the housing is upgraded to a two-channel smoke aspiration system. Depending on whether the housing is used as one-channel or two-channel smoke aspiration system, it is equipped with one or two detector modules and the appropriate front foil.

Air from the monitored room is sampled via the connected sensor pipe network and directed to the detector module (not provided), which analyses the air samples. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. The alarm can be reset at the control panel. Thanks to the high response sensitivity of the detector module, the system can be used for early fire detection in room and equipment monitoring.

The continuous air flow, which is generated by a ventilator in the smoke aspiration system housing, is permanently monitored. A failure of the ventilator, blocking of aspiration holes or a pipe burst are optically displayed on the system and transmitted to the control panel as fault message.

The smoke aspiration system housing is provided with the entire evaluation electronics. However, **the detector module, the front foil and the sensor pipe network are not provided.** A serial interface for communication with a PC software is installed in the system. Operation, fault, alarm/area1 and alarm/area2 are indicated on the front side of the system via LEDs.

Features

- Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- Individual detector identification through connection of an optional Address Module NG58-1
- Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	14 - 30VDC
Current consumption at 24V	
one detector module	max. 275mA (quiescent), 285mA (alarm)
two detector modules	max. 295mA (quiescent), 315mA (alarm)
Pipe length	2 × max. 180m
Number of aspiration holes	2 × max. 20
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 292 × 113 (mm)
Colour	white, RAL 9018
Weight	1.45kg
Approval	VdS G202064

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	251	244322	Detector Module DM-TP-01-L
	251	244321	Detector Module DM-TP-10-L
	251	244320	Detector Module DM-TP-50-L
	249	222013	Detector Reset Module MQZ1000-1
	252	244184	Front Foil/1 Detector Module FW-TP-1
	252	244185	Front Foil/2 Detector Modules FW-TP-2

244320 Detector Module DM-TP-50-L

The Detector Module DM-TP-50-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TP-1/A. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold

Light obscuration	1.0 - 0.5%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.No.	Name Type
	250	244181	Smoke Aspiration System Housing TP-1/A

244321 Detector Module DM-TP-10-L

The Detector Module DM-TP-10-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TP-1/A. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold

Light obscuration	0.8 - 0.4 - 0.2 - 0.1%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.No.	Name Type
	250	244181	Smoke Aspiration System Housing TP-1/A

244322 Detector Module DM-TP-01-L

The Detector Module DM-TP-01-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TP-1/A. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications
Response threshold
Light obscuration 0.12 - 0.06 - 0.03 - 0.015%/m
Air flow monitoring 4 levels

Cross-references	Page	Art.No.	Name Type
	250	244181	Smoke Aspiration System Housing TP-1/A

244184 Front Foil/1 Detector Module FW-TP-1

The self-adhesive plastic foil is sticked onto the Smoke Aspiration System Housing TP-1/A if the housing is used as one-channel smoke aspiration system.

Cross-references	Page	Art.No.	Name Type
	250	244181	Smoke Aspiration System Housing TP-1/A

244185 Front Foil/2 Detector Modules FW-TP-2

The self-adhesive plastic foil is sticked onto the Smoke Aspiration System Housing TP-1/A if the housing is used as two-channel smoke aspiration system.

Cross-references	Page	Art.No.	Name Type
	250	244181	Smoke Aspiration System Housing TP-1/A

244300 Smoke Aspiration System Housing TT-1

The Smoke Aspiration System Housing TT-1 samples air from a monitored room via a connected sensor pipe network and directs it to a detector module (not provided), which analyses the air samples. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. The alarm can be reset at the control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of detector modules.

The continuous air flow, which is generated by a ventilator in the smoke aspiration system housing, is permanently monitored. A failure of the ventilator, blocking of aspiration holes or a pipe burst are optically displayed on the system and transmitted to the control panel as fault message.

The smoke aspiration system housing is provided with the entire evaluation electronics. However, **the detector module, the front foil and the sensor pipe network are not provided**. A serial interface for communication with a PC software is installed in the system. Operation, fault, info-alarm, pre-alarm and main alarm are indicated on the front side of the system via LEDs. In addition, for the display of the actual smoke density, a 10-step LED display is provided.

Features
- Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- Individual detector identification through connection of an optional Address Module NG58-1
- Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	14 - 30VDC
Current consumption at 24V	max. 260mA (quiescent), 290mA (alarm) incl. detector module
Pipe length	max. 180m
Number of aspiration holes	max. 24
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 292 × 113 (mm)
Colour	white, RAL 9018
Weight	1.35kg
Approval	VdS G202064

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	254	244325	Detector Module DM-TT-01-L
	253	244324	Detector Module DM-TT-10-L
	253	244323	Detector Module DM-TT-50-L
	249	222013	Detector Reset Module MQZ1000-1
	254	244305	Front Foil FW-TT-1

244323 Detector Module DM-TT-50-L

The Detector Module DM-TT-50-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TT-1. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	1.0 - 0.5%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.No.	Name Type
	252	244300	Smoke Aspiration System Housing TT-1

244324 Detector Module DM-TT-10-L

The Detector Module DM-TT-10-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TT-1. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	0.8 - 0.4 - 0.2 - 0.1%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.No.	Name Type
	252	244300	Smoke Aspiration System Housing TT-1

244325 Detector Module DM-TT-01-L

The Detector Module DM-TT-01-L is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing TT-1. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected separately, with a choice of 4 levels each. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold

Light obscuration	0.12 - 0.06 - 0.03 - 0.015%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.No.	Name Type
	252	244300	Smoke Aspiration System Housing TT-1

244305 Front Foil FW-TT-1

The self-adhesive plastic foil is sticked onto the Smoke Aspiration System Housing TT-1.

Cross-references	Page	Art.No.	Name Type
	252	244300	Smoke Aspiration System Housing TT-1

244155 Smoke Aspiration System T-SS

The Smoke Aspiration System T-SS continuously samples air from a monitored room via a sensor pipe network and directs it to an automatic smoke evaluation unit. A ventilator in the interior of the smoke aspiration system housing generates a negative pressure to continuously aspirate air through the sensor pipe network to the evaluation unit. Thereby, the system, which operates on the principle of scattered light, always obtains new air samples from the monitored area. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. There is also the possibility of activating 2 different pre-alarms. The alarm can be reset at the fire detection control panel. The air flow in the sensor pipe network is continuously monitored. The operational safety of the smoke aspiration system depends to a large extent on the permanent air supply of the detector. Therefore, a failure of the ventilator, blocking of aspiration holes or a pipe burst are immediately identified and transmitted to the control panel as fault message. The sensitivity and the delay time of the air flow monitoring can be selected with two switches in 4 steps each. The smoke aspiration system housing is provided, including the entire evaluation and detection unit. However, **the sensor pipe network is not provided.**

Features

- Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- Individual detector identification through connection of an optional Address Module NG58-1
- Connection to an ADM loop is possible via optional modules

Specifications

Sensitivity	0.025 to 0.2%/m (adjustable in 4 steps)
Maximum pipe length	360m
Max. number of aspiration holes	72
Supply voltage	14 - 30VDC
Current consumption at 24V	approx. 400mA (quiescent), 450mA (active)
Ambient temperature	-10°C to +60°C (standard version)
Dimensions W × H × D	366 × 240 × 132 (mm)
Colour	white, RAL 9018
Weight	2.8kg
Protection class	IP20
Approval	VdS G201035

Cross-references	Page	Art.No.	Name Type
	181	249028	Address Module Conventional/60/65 NG60-1
	156	249020	Address Module Conventional NG58-1
	249	222013	Detector Reset Module MQZ1000-1

24 Accessories for Smoke Aspiration Systems

244111 Sensing Pipe/PVC ROHR-PVC

The sensor pipe is made of grey PVC (nominal width = 20mm, outer diameter = 25mm) for a smoke aspiration system. All joints of the piping system need to be glued together. The sensor pipe is provided in 5m long tubes.

244248 Sensing Hose/PVC/25mm SCHL-PVC/25

The flexible grey tube is made of PVC, has a nominal width of 20mm and an outer diameter of 25mm, and is used for installing sections of the sensor pipe network of a smoke aspiration system under difficult conditions. The connection with the sensor duct is established via bushings. The sensor tube can be used in all systems, which contain an individual setting for the actual air flow conditions.

244112 Pipe-Fitting-Bend/90 BOGEN-90

Pipe elbow (long radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.

244113 Pipe-Fitting-Knee/90 WINKEL-90

Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.

244114 Pipe-Fitting-Knee/45 WINKEL-45

Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 45°, designed for sensor pipes of smoke aspiration systems.

244115 Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90

Pipe T-piece made of grey PVC (nominal width = 20mm), for a 90° junction, designed for sensor pipes of smoke aspiration systems.

244116 Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45

Pipe T-piece made of grey PVC (nominal width = 20mm), for a 45° junction, designed for sensor pipes of smoke aspiration systems.

244118 Pipe-Fitting-Faucet MUFFE

Pipe adapter made of grey PVC (nominal width = 20mm), for the connection of sensor pipes of smoke aspiration systems.

244119 Pipe-Fitting-End KAPPE

Pipe end cap made of grey PVC (nominal width = 20mm), for sensor pipes of smoke aspiration systems.

244125 Pipe Clamp RKL25

Pipe junction made of grey PVC including screw nut, for fixation of rigid sensor pipes of smoke aspiration systems.

244235 Non-Return Spring Valve RVFED-25

The check valve is a safety device to protect the sensor pipe network and reduction foils during cleaning. The pressure is kept constant in the entire pipe network during the blow-out process by the check valve, thereby ensuring that all aspiration holes are cleaned equally. The check valve is installed at the end of the sensor pipe network.

244240 Ceiling Lead-Through Set DDF-KOMPL

The ceiling duct enables a barely noticeable integration of aspiration holes in areas with inserted ceilings and in special applications, when air has to be sampled from closed rooms (e.g., 19" cabinets). The ceiling duct consists of an aspiration element including knurled nut for easy installation and a duct reducer. The Tube Fitting/T90 and the required reduction foil have to be ordered separately. A 2 meter long flexible aspiration tube can be installed per ceiling duct.

244201 Sensing Hose DN12X9 DN-12X9

The aspiration tube DN-12x9 is used for the connection of system components of the ceiling duct. Due to the flexible design of the aspiration tube, aspiration elements can be precisely fit in the false ceiling and can be connected with the sensor pipe network.

244241 Air Filter for Smoke Aspir. System LF-RAS

The air filter is placed in the sensor pipe network outside the smoke aspiration system housing, to protect the detector module against rapid contamination. The filter consists of 3 layers (one filter each course-medium-fine), which guarantee to reliably clean the aspirated air but simultaneously allow smoke particles to pass in case of fire. The filter is connected to the sensor pipe network via two PG 25 screw connections.

244237 3 Way Ball Valve 3MKH

The three-way ball valve enables the manual supply of compressed air to the sensor pipe network. During the change from normal mode to blow-out mode, the destruction of the smoke aspiration system is avoided due to the leak-proof centre position.

Specifications

Input pressure	max. 16bar
Connection	3/4"
Weight	450g

244236 Condensate Separator DN25 KABS-25

The condensate separator is for installation in the sensor pipe network and guarantees that air samples, which are directed to the smoke aspiration system, are dry. This is an

effective measure to keep the number of false alarms low in areas with low or varying temperatures and in areas with high humidity. The condensate separator contains a manual drain valve and should be checked regularly.

Specification

Input pressure	max. 16bar
Ambient temperature	0°C to +50°C

244999T Aspiration Hole Reduction Foils, Overviews

Aspiration hole reduction foils are used for a precise design of aspiration holes on the sensing pipe network of the smoke aspiration system. A separate version is available for deep-freezing areas.

	Standard version		Version for deep-freezing areas	
Hole diameter	Article number	Type	Article number	Type
2.0mm	244244	AREDF-2,0	244246	AREDF-2,0TK
2.5mm	244245	AREDF-2,5	244247	AREDF-2,5TK
3.0mm	244202	AREDF-3,0	244217	AREDF-3,0TK
3.2mm	244203	AREDF-3,2	244218	AREDF-3,2TK
3.4mm	244204	AREDF-3,4	244219	AREDF-3,4TK
3.6mm	244205	AREDF-3,6	244220	AREDF-3,6TK
3.8mm	244206	AREDF-3,8	244221	AREDF-3,8TK
4.0mm	244207	AREDF-4,0	244222	AREDF-4,0TK
4.2mm	244208	AREDF-4,2	244223	AREDF-4,2TK
4.4mm	244209	AREDF-4,4	244224	AREDF-4,4TK
4.6mm	244210	AREDF-4,6	244225	AREDF-4,6TK
5.0mm	244211	AREDF-5,0	244226	AREDF-5,0TK
5.2mm	244212	AREDF-5,2	244227	AREDF-5,2TK
5.6mm	244213	AREDF-5,6	244228	AREDF-5,6TK
6.0mm	244214	AREDF-6,0	244229	AREDF-6,0TK
6.8mm	244215	AREDF-6,8	244230	AREDF-6,8TK
7.0mm	244216	AREDF-7,0	244231	AREDF-7,0TK

244233 Sleeve For Reduction Foil BA-AREDF

The banderole is used for reliable fixation of the aspiration hole reduction foil to the sensor pipe network of a smoke aspiration system.

244234 Plastic Clip for Red. Foil/Low-temp KC-AREDF-TK

The plastic clip is used for reliable fixation of an aspiration hole reduction foil in deep-freezing areas to the sensor pipe network of a smoke aspiration system.

244128 Adhesive/Tangit/0.12kg KLEB-RAS-01

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.125kg, which is sufficient for gluing approx. 50 junctions.

244129 Adhesive/Tangit/0.25kg KLEB-RAS-02

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.25kg, which is sufficient for gluing approx. 100 junctions.

244130 Adhesive/Tangit/0.5kg KLEB/RAS-05

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.5kg, which is sufficient for gluing approx. 200 junctions.

244126 Adhesive/Tangit/1kg KLEB/RAS

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 1kg, which is sufficient for approx. 400 junctions.

244131 Cleaner/Tangit/0,12L REIN-RAS-01

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 0.125 litre.

244127 Cleaner/Tangit/1L REIN/RAS

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 1 litre.

25 Labels

249211 Detector Label Sheet Compl/8pcs. BME/BEZ-BOG-KOMPL

The labels serve for the marking of an automatic fire detector with detector zone and detector number. It consists of a sturdy white plastic card to which an adhesive label can be sticked and signed. Direct marking of the plastic card is also an option. An A4-size sheet with 8 labels and 8 plastic cards are included in the delivery.

Specifications

Dimensions card W × H	160 × 60 (mm)
Dimensions label W × H	85 × 55 (mm)
Marking area W × H	80 × 40 (mm)

249217 Detector Label Sheet/8pcs. BME/BEZ-BOG

The inscribable and laser-printable adhesive label is used for marking an automatic fire detector with detector zone and detector number. There are 8 self-adhesive labels on an A4-size sheet.

Specifications

Dimensions W × H	85 × 55 (mm)
Marking area W × H	80 × 40 (mm)

249240 Detector Label/Large/Sheet/8pcs. BME/GR-BOG

The inscribable adhesive label serves for the marking of fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes). An A4-size sheet contains 8 adhesive labels.

Specifications

Dimensions Ø	70mm
Marking area W × H	60 × 30 (mm)

249242 Detector Label/Small/Sheet/20pcs. BME/KL-BOG

The inscribable adhesive label serves for the marking of fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes). An A4-size sheet contains 20 adhesive labels.

Specifications

Dimensions Ø	45mm
Marking area W × H	40 × 20 (mm)

249011 Detector Label Complete BME/BEZ-KOMPL

The single label is used for marking an automatic fire detector with detector zone and detector number. The inscribable adhesive label is sticked onto the enclosed sturdy white plastic card. Direct marking of the plastic card is also an option.

Specifications

Dimensions card W × H	160 × 60 (mm)
Dimensions label W × H	85 × 55 (mm)
Marking area W × H	80 × 40 (mm)

249040 Detector Label/Large BME/GR

The single inscribable adhesive label is used for marking fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes).

Specifications

Dimensions Ø	70mm
Marking area W × H	60 × 30 (mm)

249042 Detector Label/Small BME/KL

The single inscribable adhesive label is used for marking fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes).

Specifications

Dimensions Ø	45mm
Marking area W × H	40 × 20 (mm)

249041 Label BMZ BME/BMZ

The standardised adhesive label with white background, red border and black inscription 'Brandmelderzentrale' is used to indicate the location of the fire detection control panel.

Specifications

Dimensions W × H	298 × 104 (mm)

249243 Label Loschsteuerzentrale BME/LSZ

The standardised adhesive label with white background, red border and black inscription 'Löschsteuerzentrale' is used to indicate the location of the extinguishing control panel.

Specifications

Dimensions W × H	298 × 104 (mm)

26 Optical and Acoustic Devices, conventional

355112 Sounder/12-24V/Red/Multitone/103dB EMA1224B4-RD

The multitone sounder EMA1224B4-RD is integrated in a red plastic housing and is suitable for outdoor and indoor mounting. The unit is designed for installation on a base for sounders and strobes Series EMA (which is not included in the delivery).

Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative monitoring voltage.

Features

- 3 different tones (continuous tone 800Hz, Slow Whoop tone, DIN 33404 tone)
- Wide operating voltage range
- Low power consumption
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	9 to 33VDC
Current consumption at 24V	4.5 to 12mA
Sound level	87 to 103dB(A) at 1m distance
Ambient temperature	-30°C to +70°C
Protection class	IP44 - IP66, depending on the base
Dimensions W × H × D	124 × 92 × 64 (mm, with base ELPBR)
Colour	flame red, RAL 3000
Weight	155g (without base)
Approvals	LPCB 166c 0832-CPD-0301

Cross-references	Page	Art.No.	Name Type
	297	359003	Base Sounder & Strobe/IP44/Red ELPBR
	297	359004	Base Sounder & Strobe/IP54/Red ESBR
	298	359008	Base Sounder & Strobe/IP66/Red ESBRS

355113 Sounder/12-24V/White/Multitone/103dB EMA1224B4-WD

The multitone sounder EMA1224B4-WD is integrated in a white plastic housing and is suitable for outdoor and indoor mounting. The unit is designed for installation on a base for sounders and strobes Series EMA (which is not included in the delivery).

Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative monitoring voltage.

Features

- 3 different tones (continuous tone 800Hz, Slow Whoop tone, DIN 33404 tone)
- Wide operating voltage range
- Low power consumption
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	9 to 33VDC
Current consumption at 24V	4.5 - 12mA
Sound level	87 to 103dB(A) at 1m distance
Ambient temperature	-30°C to +70°C
Protection class	IP44 (with base ELPBW)
Dimensions W × H × D	124 × 92 × 64 (mm, with base ELPBW)
Colour	white, RAL 9001
Weight	155g (without base)
Approval	LPCB 166c 0832-CPD-0301

Cross-references	Page	Art.No.	Name Type
	297	359007	Base Sounder & Strobe/IP44/White ELPBW

355114 Sounder/12-24V/White/Multitone DBS1224B4-WD

The multitone sounder DBS1224B4-WD is integrated in a round white plastic housing and is suitable for indoor use. The sounder is designed for installation underneath a detector base. Alternatively, the sounder can be used independent of a base, on the ceiling or on a wall. In this case an additional front lid DBSLID is needed.

Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative monitoring voltage.

Features

- 3 different tones (continuous tone 800Hz, Slow Whoop tone, DIN 33404 tone)
- Wide operating voltage range
- Low power consumption
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	9 to 33VDC
Current consumption at 24V	4.5 to 12mA
Sound level	86 to 93dB(A) at 1m distance
Ambient temperature	-30°C to +70°C
Dimensions Ø × H	117 × 30 (mm)
Colour	white
Weight	150g

Cross-references	Page	Art.No.	Name Type
	298	359005	Lid For Detector Base Sounder/Red DBSLIDR
	298	359006	Lid For Detector Base Sounder/White DBSLIDW

355001 Sounder/24V/Red/Multitone/100dB MS1R

The multitone sounder MS1R is integrated in a red plastic housing and is suitable for indoor and outdoor mounting. Due to the built-in serial diode, the sounder can be directly connected to a line-monitored output with negative monitoring voltage.

Features

- 32 different tones selectable
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	18 to 30VDC
Current consumption at 24V	20 to 60mA, depending on the tone type and sound level
Sound level	max. 100dB(A) at 1m distance
Ambient temperature	-25°C to +55°C
Protection class	IP54
Dimensions W × H × D	90 × 90 × 81 (mm)
Colour	flame red, RAL 3000
Weight	250g
Approvals	VdS G28702 0086-CPD-96705

355014 Sounder/24V/White/Multitone/100dB MS1W

The multitone sounder MS1W is integrated in a white plastic housing and is suitable for indoor and outdoor mounting. Due to the built-in serial diode, the sounder can be directly connected to a line-monitored output with negative monitoring voltage.

Features
- 32 different tones selectable
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	18 to 30VDC
Current consumption at 24V	20 to 60mA, depending on the tone type and sound level
Sound level	max. 100dB at 1m distance
Ambient temperature	-25°C to +55°C
Protection class	IP54
Dimensions W × H × D	90 × 90 × 81 (mm)
Colour	signal white, RAL 9003
Weight	250g
Approval	VdS G28702 0086-CPD-96705

351010 Sounder-Strobe/Red/Red/Conv EMA24FRSSR

The combined multitone sounder and strobe EMA24FRSSR is integrated in a red plastic housing with red cap and is suitable for outdoor and indoor mounting. The unit is installed on a base for sounders and strobes Series EMA (which is not included in the delivery).

Thanks to a built-in serial diode, the sounder-strobe can be connected directly to a line-monitored output with negative monitoring voltage.

Features
- 16 different tones (e.g., continuous tone 800Hz, alternating tone 800Hz/1000Hz, Slow Whoop tone, DIN 33 404 tone)
- Wide operating voltage range
- Adjustable sound level
- Very high flash energy
- Suitable for surface mounting
- Long lifespan

Specifications

Operating voltage	9 - 33VDC
Current consumption at 24V	45mA
Sound level	88 - 103dB(A) at 1m distance
Flash frequency	1Hz
Ambient temperature	-30°C to +70°C
Protection class	IP44 - IP66, depending on the base
Dimensions W × H × D	124 × 92 × 95 (mm, with base ELPBR)
Colour	flame red, RAL 3000
Weight	260g (without base)
Approvals	LPCB 166c/32
	0832-CPD-0583

Cross-references	Page	Art.No.	Name Type
	297	359003	Base Sounder & Strobe/IP44/Red ELPBR
	297	359004	Base Sounder & Strobe/IP54/Red ESBR
	298	359008	Base Sounder & Strobe/IP66/Red ESBRS

351650 Sounder-Strobe/24V/Red MS5RR

The Sounder-Strobe MS5RR consists of a strobe and a sounder, which are installed in a red plastic housing and mounted together on a common housing frame. The strobe has a red cap.

The sounder-strobe is suitable for outdoor and indoor surface mounting.

Features

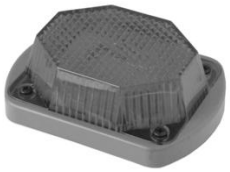
- Very high flash energy
- 32 different tones selectable
- Adjustable sound level
- Long lifespan

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	300mA
Flash frequency	1Hz
Sound level	max. 100dB(A) at 1m distance
Ambient temperature	-25°C to +40°C
Protection class	IP54
Dimensions W × H × D	183 × 90 × 81 (mm)
Colour housing	flame red, RAL 3000
Weight	510g
Approvals	VdS G28702 (sounder)
	VdS G28714 (strobe)
	0086-CPD-96705

356003 Strobe/24V/Red/Orange EMA24RS5A

The Strobe EMA24RS5A is accommodated in a red plastic housing with organge cap and is designed for indoor and outdoor mounting.The unit is installed on a base for sounders and strobes Series EMA (which is not included in the delivery).



Features
- Very high flash energy
- Suitable for surface mounting
- Long service life

Specifications

Operating voltage	24VDC
Current consumption at 24V	200mA
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Protection class	IP44 - IP66, depending on the base
Dimensions W × H × D	124 × 92 × 60 (mm, with base ELPBR)
Colour	flame red, RAL 3000
Weight	165g (without base)

Cross-references	Page	Art.No.	Name Type
	297	359003	Base Sounder & Strobe/IP44/Red ELPBR
	297	359004	Base Sounder & Strobe/IP54/Red ESBR
	298	359008	Base Sounder & Strobe/IP66/Red ESBRS

356001 Strobe/24V/Red/Orange MS2RA

The Strobe MS2RA is mounted in a red plastic housing with an orange cap and is suitable for indoor and outdoor mounting.

Features
- Very high flash energy
- Suitable for surface mounting
- Long life span

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	250mA
Flash frequency	1Hz
Ambient temperature	-25°C to +40°C
Protection class	IP65
Dimensions W × H × D	90 × 90 × 81 (mm)
Colour housing	flame red, RAL 3000
Weight	260g
Approval	VdS G28714

356650 Strobe/24V/Red/Red MS2RR/24V

The Strobe MS2RR is accommodated in a red plastic housing with red cap and is prepared for indoor and outdoor mounting.

Features
- Very high flash energy
- Suitable for surface mounting
- Exchangeable cap for different colours
- Long lifespan

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	250mA
Flash frequency	1Hz
Ambient temperature	-25°C to +40°C
Protection class	IP65
Dimensions W × H × D	90 × 90 × 81 (mm)
Colour housing	flame red, RAL 3000
Weight	260g
Approval	VdS G28714

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355180 Sounder/700ISM/Red FI700/WM/SOUR

The loop sounder FI700/WM/SOUR is activated and supplied via the ADM loop with Labor Strauss/700 protocol. Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate one of three tones. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained.

The sounder is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base and a special tool for opening the housing are included with the sounder.

Features

- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Low power consumption
- Adjustable sound level
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder off) max. 7mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	255g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355182 Sounder/700ISM/Red FI700/WM/MT/SOUR

The loop sounder FI700/WM/MT/SOUR is identical with the loop sounder FI700/WM/SOUR, with the exception of the available tones.

- Tone 1: Slow Whoop tone (NEN 2575; 300 - 1200Hz over 3s, 0.5s pause)
  Tone 2: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
  Tone 3: continuous tone 990Hz

Specifications (for further specifications, see FI700/WM/SOUR)

Colour	red

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355183 Sounder/700ISM/White FI700/WM/MT/SOUW

The loop sounder FI700/WM/MT/SOUW is identical with the loop sounder FI700/WM/SOUR, except the FI700/WM/MT/SOUW has a white housing and offers different tones.

- Tone 1: Slow Whoop tone (NEN 2575; 300 - 1200Hz over 3s, 0.5s pause)
  Tone 2: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
  Tone 3: continuous tone 990Hz

Specifications (for further specifications, see FI700/WM/SOUR)

Colour	white

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355189 Sounder/IP66/700ISM/Red FI700/WM66/SOUR

The loop sounder FI700/WM66/SOUR is activated and supplied via the ADM loop with Labor Strauss/700 protocol. The tone is set by means of a DIP switch. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained. The sounder is integrated in a red plastic housing, and thanks to its dust and water protected design with protection class IP66, it is suitable for harsh environmental conditions.

Features

- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Low power consumption
- Adjustable sound level
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder off) max. 7mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP66
Dimensions W × H × D	110 × 110 × 105 (mm)
Colour	red
Weight	300g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355184 Sounder/700RI/White/Multitone FI700/FBRI/MT/SOUW

The Sounder FI700/FBRI/MT/SOUW is integrated in a white plastic housing and is designed for indoor ceiling mounting. A Detector Base Series FI700 must be attached onto the sounder. The sounder is actuated via the remote indicator output of the detector. The tone is set by means of a DIP switch.

Features
- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Low power consumption
- 2 different sound levels selectable

Specifications

Operating voltage	15 - 30VDC
Current consumption at 24V	typ. 5mA
Sound level	88dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	116 × 26 (mm)
Colour	white
Weight	80g

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B

355185 Sounder/700ISM/White/Multitone FI700/FB/MT/SOUW

The loop sounder FI700/FB/MT/SOUW is activated and supplied via the ADM loop with Labor Strauss/700 protocol. The sounder is integrated in a white plastic housing and is designed for indoor ceiling mounting. A Detector Base Series FI700 can be attached onto the sounder.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the control panel can activate one of two tones. The tone type combination is set by means of a DIP switch. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained.

Features
- Selectable tone (e.g., continuous tone 910Hz, Slow Whoop tone, DIN tone, alternating tone 685/910Hz, interrupted tone 910Hz)
- Low power consumption
- 2 different sound levels selectable
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder off) typ. 5mA (sounder on)
Sound level	88dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	116 × 26 (mm)
Colour	white
Weight	80g

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B
	36	214037	Loop Interface LIF128-1

355186 Sounder-Strobe/700ISM/White/Clear/Multi FI700/FB/MT/SOUW/STRC

The Sounder-Strobe FI700/FB/MT/SOUW/STRC is activated and supplied via the ADM loop with Labor Strauss/700 protocol. The sounder is integrated in a white plastic housing with colourless cap and is designed for indoor ceiling mounting. A Detector Base Series FI700 can be attached onto the sounder.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the control panel can activate one of two tones. The tone type combination is set by means of a DIP switch. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. The sounder is always activated together with the strobe.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained.

Features

- Selectable tone (e.g., continuous tone 910Hz, Slow Whoop tone, DIN tone, alternating tone 685/910Hz, interrupted tone 910Hz)
- Long lifespan of the strobe due to use of LEDs
- Low power consumption
- 2 different sound levels selectable
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder/strobe off) typ. 5mA (sounder/strobe on)
Sound level	88dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	116 × 26 (mm)
Colour	white
Weight	80g

Cross-references	Page	Art.No.	Name Type
	104	246080	Detector Base/700 FI700/B
	36	214037	Loop Interface LIF128-1

355187 Sounder-Strobe/700ISM/Red/Red/Multi FI700/WM/SOUR/STRR

The Sounder-Strobe FI700/WM/SOUR/STRR is integrated in a red plastic housing with a red cap and is designed for indoor wall mounting. The strobe is actuated and supplied via the ADM loop with Labor Strauss/700 protocol.

The tone is set by means of a DIP switch. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. The sounder is always activated together with the strobe.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained. The base and a special tool for opening the housing are included with the sounder.

Features

- Selectable tone (e.g., continuous tone 910Hz, Slow Whoop tone, DIN tone, alternating tone 685/910Hz, interrupted tone 910Hz)
- Long life span of the strobe due to use of LEDs
- Low power consumption
- 2 different sound levels selectable
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder/strobe off) typ. 9mA (sounder/strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Relative humidity	5 - 85% (no condensation)
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	235g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355190 Sounder-Strobe/IP66/700ISM/Red/Red FI700/WM66/SOUR/STRR

The Sounder-Strobe FI700/WM66/SOUR/STRR is activated and supplied via the ADM loop with Labor Strauss/700 protocol. The tone is set by means of a DIP switch. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. The sounder is always activated together with the strobe.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained. The sounder is integrated in a red plastic housing with a red cap, and thanks to its dust and water protected design with protection class IP66, it is suitable for harsh environmental conditions.

Features
- Tone 1: alternating tone 650Hz for 250ms, 990Hz for 250ms
  Tone 2: continuous tone 990Hz
  Tone 3: interrupted tone 990Hz (0.5s ON, 0.5s OFF)
- Long life span of the strobe due to use of LEDs
- Low power consumption
- 2 different sound levels selectable
- Address can be set in the range 1 to 240 by means of Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder/strobe off) typ. 9mA (sounder/strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Protection class	IP66
Dimensions W × H × D	110 × 110 × 105 (mm)
Colour	red
Weight	300g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

356050 Strobe/700ISM/Red/Red FI700/WM/STRRR

The Strobe FI700/WM/STRRR is integrated in a red plastic housing with a red cap and is designed for outdoor and indoor wall mounting. The strobe is actuated and supplied via the ADM loop with Labor Strauss/700 protocol.

In the event of a short circuit, the integrated dual-isolator interrupts the loop. With that, the function of all ADM elements that do not lie within the loop segment which is affected by the short circuit, is maintained.

Features
- Long life span of the strobe due to use of LEDs
- Integrated dual-isolator
- Low power consumption
- Address can be set in the range 1 to 240 with Programming Unit FI700/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (strobe off) typ. 6mA (strobe active)
Flash frequency	1Hz or 0.5Hz
Ambient temperature	-10°C to +55°C
Relative humidity	5 - 85% (no condensation)
Protection class	IP54
Dimensions Ø × D	93 × 53 (mm)
Colour	red
Weight	100g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1

355160 Sounder/200/Red/Multitone/100dB WMSOU-RR-P01

The addressable multitone sounder is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off)
	max. 2.5mA (low sound level)
	max. 4.4mA (medium sound level)
	max. 7.1mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level)
	typ. 90dB(A) / 1m distance (medium sound level)
	typ. 96dB(A) / 1m distance (high sound level)
	max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.6mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.5mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.6mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355168 Sounder/200/White/Multitone/100dB WMSOU-WW-P01

The addressable loop-powered multitone sounder is accommodated in a white plastic housing and is designed for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the control panel can activate the sounder with tone A or B. The tone type of

tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high) via DIL switch
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off)
	max. 2.5mA (low sound level)
	max. 4.4mA (medium sound level)
	max. 7.1mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level)
	typ. 90dB(A) / 1m distance (medium sound level)
	typ. 96dB(A) / 1m distance (high sound level)
	max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.6mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.5mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.6mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm, incl. Base LPBW)
Colour	white
Weight	204g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359044	Base Sounder & Strobe/IP65/White WDBW
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355161 Sounder/200lSM/Red/Multitone/100dB WMSOU-RR-P02

The addressable multitone sounder is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption

- Integrated dual-isolator
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 2.7mA (low sound level) max. 4.6mA (medium sound level) max. 7.3mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level) typ. 90dB(A) / 1m distance (medium sound level) typ. 96dB(A) / 1m distance (high sound level) max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.8mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.7mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.8mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355169 Sounder/200ISM/White/Multitone/100dB WMSOU-WW-P02

The addressable loop-powered multitone sounder is accommodated in a white plastic housing and is designed for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high) via DIL switch
- Low power consumption
- Integrated dual-isolator
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 2.7mA (low sound level)

	max. 4.6mA (medium sound level)
	max. 7.3mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level)
	typ. 90dB(A) / 1m distance (medium sound level)
	typ. 96dB(A) / 1m distance (high sound level)
	max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.8mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.7mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.8mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm, incl. Base LPBW)
Colour	white
Weight	204g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359044	Base Sounder & Strobe/IP65/White WDBW
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355162 Sounder-Strobe/200/Red/Red/Multi/100dB WMSST-RR-P01

The addressable multitone sounder with strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Long lifespan of strobe due to the use of LEDs
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off)
	max. 4.7mA (low sound level)
	max. 6.6mA (medium sound level)
	max. 9.3mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level)
	typ. 90dB(A) / 1m distance (medium sound level)
	typ. 96dB(A) / 1m distance (high sound level)
	max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.8mA at 98dB(A) / 1m distance

DIN tone 1200-500Hz	typ. 8.8mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 9.3mA at 96dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355163 Sound-Strobe/200ISM/Red/Red/Multi/100dB WMSST-RR-P02

The addressable multitone sounder with strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off)
	max. 4.9mA (low sound level)
	max. 6.8mA (medium sound level)
	max. 9.5mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level)
	typ. 90dB(A) / 1m distance (medium sound level)
	typ. 96dB(A) / 1m distance (high sound level)
	max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 7.0mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 9.0mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 9.5mA at 96dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)

Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355172 Sounder/200/White/Multitone IBSOU-PW-P01

The addressable sounder is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Integrated detector base
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off)
	max. 1.9mA (low sound level)
	max. 3.1mA (medium sound level)
	max. 6.8mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level)
	typ. 79dB(A) / 1m distance (medium sound level)
	typ. 87dB(A) / 1m distance (high sound level)
	max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.2mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.4mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.5mA at 86dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	white
Weight	134g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355173 Sounder/200ISM/White/Multitone IBSOU-PW-P02

The addressable sounder is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Integrated dual-isolator
- Integrated detector base
- 2 decadic rotary switches for setting the sounder address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off)
	max. 2.1mA (low sound level)
	max. 3.3mA (medium sound level)
	max. 7.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level)
	typ. 79dB(A) / 1m distance (medium sound level)
	typ. 87dB(A) / 1m distance (high sound level)
	max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.7mA at 86dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	white
Weight	134g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355164 Sounder/200/Ivory/Multitone IBSOU-DD-P01

The addressable sounder is accommodated in a round cream-coloured plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Integrated detector base
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 1.9mA (low sound level) max. 3.1mA (medium sound level) max. 6.8mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.2mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.4mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.5mA at 86dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	cream, RAL 9001
Weight	134g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5

355165 Sounder/200ISM/Ivory/Multitone IBSOU-DD-P02

The addressable sounder is accommodated in a round cream-coloured plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Integrated dual-isolator
- Integrated detector base
- 2 decadic rotary switches for setting the sounder address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off)
	max. 2.1mA (low sound level)
	max. 3.3mA (medium sound level)
	max. 7.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level)
	typ. 79dB(A) / 1m distance (medium sound level)
	typ. 87dB(A) / 1m distance (high sound level)
	max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.7mA at 86dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	cream, RAL 9001
Weight	134g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5

355174 Sounder-Strobe/200/White/Red/Multitone IBSST-PR-P01

The addressable sounder with strobe (red cap) is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features
- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Long lifespan of strobe due to the use of LEDs
- Low power consumption
- Integrated detector base
- 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.1mA (low sound level) max. 5.4mA (medium sound level) max. 9.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.7mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / white
Weight	136g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355175 Sounder-Strobe/200ISM/White/Red/Multi IBSST-PR-P02

The addressable sounder with strobe (red cap) is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features
- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption

- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator
- Integrated detector base
- 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.3mA (low sound level) max. 5.6mA (medium sound level) max. 9.2mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.6mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.8mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.9mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / white
Weight	136g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	300	359043	Base Sounder & Strobe/IP44/White SDBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355166 Sounder-Strobe/200/Ivory/Red/Multitone IBSST-DR-P01

The addressable sounder with strobe (red cap) is accommodated in a round cream-coloured plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Long lifespan of strobe due to the use of LEDs
- Low power consumption
- Integrated detector base
- 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.1mA (low sound level) max. 5.4mA (medium sound level) max. 9.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.7mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / cream
Weight	136g
Approval	VdS G206072

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5

355167 Sounder-Strobe/200ISM/Ivory/Red/Multi IBSST-DR-P02

The addressable sounder with strobe (red cap) is accommodated in a round cream-colured plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in 3 steps (low-medium-high)
- Low power consumption
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator
- Integrated detector base
- 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.3mA (low sound level) max. 5.6mA (medium sound level)

	max. 9.2mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level)
	typ. 79dB(A) / 1m distance (medium sound level)
	typ. 87dB(A) / 1m distance (high sound level)
	max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.6mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.8mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.9mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / cream
Weight	136g
Approval	VdS G206076

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	301	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5

356140 Strobe/200/Red WMSTR-WR-P01

The addressable strobe has a red cap and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The strobe is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

Features

- Long lifespan of strobe due to the use of LEDs
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (strobe off)
	max. 3.8mA (strobe active)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	112 × 37 (mm) (incl. Base LPBW)
Colour	red
Weight	80g

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

356141 Strobe/200ISM/Red WMSTR-WR-P02

The addressable strobe has a red cap and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The strobe is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.

A dual-isolator is integrated in the strobe. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Features
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 99
- Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (strobe off) max. 4.0mA (strobe active)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Protection class	IP24 - IP65, depending on the base
Dimensions Ø × D	112 × 37 (mm) (incl. Base LPBW)
Colour	red
Weight	80g

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	299	359041	Base Sounder & Strobe/IP44/Red SDBR
	300	359042	Base Sounder & Strobe/IP65/Red WDBR
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5

355133 Sounder/XP95ISM/White/Alert 45681-277

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features
- Tone A: alternating tone (581Hz for 0.5s, 870Hz for 0.5s)
  Tone B: interrupted tone 870Hz (1s ON, 1s OFF)
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)

Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355131 Sounder/XP95ISM/White/Slow-Whoop 45681-290

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features

- Tone A: Slow Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 870Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355132 Sounder/XP95ISM/White/DIN 45681-300

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. If several sounders are actuated in parallel, they are synchronised by the control

panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features
- Tone A: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
  Tone B: continuous tone 870Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	VdS G207009

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355124 Sounder/XP95/Red/Alert/100dB 55000-278

The addressable loop sounder 55000-278 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included. The sounder is activated and supplied via the ADM loop using Apollo/Discovery protocol. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B.

Features
- Tone A: alternating tone (664Hz for 0.5s, 984Hz for 0.5s)
  Tone B: interrupted tone 984Hz (1s ON, 1s OFF)
- Low power consumption
- Adjustable sound level

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.1mA (sounder off) max. 4.5mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	215g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

355125 Sounder/XP95/Red/Slow-Whoop/100dB 55000-276

The addressable loop sounder 55000-276 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included.
The sounder is activated and supplied via the ADM loop using Apollo/Discovery protocol. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B.

Features
- Tone A: Slow Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 970Hz
- Low power consumption
- Adjustable sound level

Specifications

Operating voltage	Supply by loop voltage
Current consumption from loop	max. 1.2mA (sounder off) max. 5mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	215g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

355130 Sounder/XP95RI/White/Alert 45681-276

The base sounder 45681-276 is integrated in a round white plastic housing and is designed for indoor mounting. The integrated detector base accommodates automatic fire detectors Series XP95 or Discovery. The sounder is supplied via the ADM loop and activated by the remote indicator output of the detector.

Features
- Alternating tone 630/990Hz
- Signal sequence 1Hz
- Low power consumption

Specifications

Operating voltage	17 to 28VDC
Current consumption from loop	typ. 10µA (sounder off) max. 3mA (sounder on)
Sound level	85dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP23
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g

Cross-references	Page	Art.No.	Name Type
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355134 Sound-Strobe/XP95ISM/White/Clear/Alert 45681-330

The addressable sounder with integrated strobe 45681-330 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- Tone A: alternating tone (550Hz for 0.5s, 825Hz for 0.5s)
  Tone B: interrupted tone 825Hz (1s ON, 1s OFF)
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	160g

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355135 Sound-Strobe/XP95ISM/White/Clear/Slow-W 45681-332

The addressable sounder with integrated strobe 45681-332 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- Tone A: Slow-Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 825Hz
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	160g

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355136 Sounder-Strobe/XP95ISM/White/Clear/DIN 45681-334

The addressable sounder with integrated strobe 45681-334 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- Tone A: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
  Tone B: continuous tone 870Hz
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	160g

Cross-references	Page	Art.No.	Name Type
	303	359021	Lid for Sounder/Red 45681-293
	303	359020	Lid for Sounder/White 45681-292
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1
	303	359022	Mounting Plate for Sounder/XP95 38531-810

355137 Sounder-Strobe/XP95ISM/Red/Multi/100dB 55000-293

The addressable multitone sounder with integrated strobe 55000-293 is installed in a red plastic housing and is prepared for indoor surface mounting. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe.

A dual-isolator is integrated in the sounder. In case of a short circuit on the loop, it maintains the function of ADM elements that are not affected by the short circuit. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- 3 different tone type combinations selectable via DIL switch
  e.g., continuous tone 900Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz
- Sound level 100dB
- Easy address setting via DIL switch
- Long lifespan of strobe due to the use of LEDs

- Integrated dual-isolator with yellow status LED indicator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Relative humidity	max. 95% (no condensation)
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	209g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

355138 Sound-Strobe/IP66/XP95ISM/Red/Mul/100dB 55000-298

The addressable multitone sounder with integrated strobe 55000-298 is installed in a red plastic housing and is prepared for outdoor surface mounting. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe.

A dual-isolator is integrated in the sounder. In case of a short circuit on the loop, it maintains the function of ADM elements that are not affected by the short circuit. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- 3 different tone type combinations selectable via DIL switch
  e.g., continuous tone 900Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz
- Sound level 100dB
- Easy address setting via DIL switch
- Long lifespan of strobe due to the use of LEDs
- Integrated dual-isolator with yellow status LED indicator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP66
Dimensions W × H × D	110 × 110 × 113 (mm)
Colour	red
Weight	394g

Cross-references	Page	Art.No.	Name Type
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

356020 Strobe/XP95/White/Red 55000-877

The addressable loop-powered strobe 55000-877 with a red cap is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base Series XP95/Discovery and is suitable for indoor mounting.

Features
- Low power consumption
- Suitable for surface mounting
- Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / red
Weight	85g

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	304	359023	Housing IP67 for Strobe/XP95 29600-318
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

356022 Strobe/XP95/White/Clear 55000-878

The addressable loop-powered strobe 55000-878 with a clear cap and red LEDs is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features
- Low power consumption
- Suitable for surface mounting
- Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / clear
Weight	85g

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	304	359023	Housing IP67 for Strobe/XP95 29600-318
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

356023 Strobe/XP95/White/Orange 55000-879

The addressable loop-powered strobe 55000-879 with an orange cap is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features

- Low power consumption
- Suitable for surface mounting
- Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / orange
Weight	85g

Cross-references	Page	Art.No.	Name Type
	177	246025	Detector Base/XP95 45681-210
	304	359023	Housing IP67 for Strobe/XP95 29600-318
	177	246036	Isolator Detector Base/XP95/Disc 45681-321
	36	214037	Loop Interface LIF128-1
	34	214021	Loop Interface LIF64-1

28 Accessories for Optical and Acoustic Devices

359003 Base Sounder & Strobe/IP44/Red ELPBR

The base ELPBR for Series EMA sounders and strobes is used for surface mounting and flush-mount or surface-mount cabling.

Features
- All-side cable entry possible
- Additional terminal on base floor

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP44
Dimensions W × H × D	120 × 90 × 22 (mm)
Colour	red
Weight	40g

Cross-references	Page	Art.No.	Name Type
	262	355112	Sounder/12-24V/Red/Multitone/103dB EMA1224B4-RD
	264	351010	Sounder-Strobe/Red/Red/Conv EMA24FRSSR
	265	356003	Strobe/24V/Red/Orange EMA24RS5A

359007 Base Sounder & Strobe/IP44/White ELPBW

The base ELPBW for Series EMA sounders and strobes is used for surface mounting and for flush-mount or surface-mount cabling..

Features
- All-side cable entry possible
- Additional terminal on base floor

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP44
Dimensions W × H × D	120 × 90 × 22 (mm)
Colour	white
Weight	40g

Cross-references	Page	Art.No.	Name Type
	262	355113	Sounder/12-24V/White/Multitone/103dB EMA1224B4-WD

359004 Base Sounder & Strobe/IP54/Red ESBR

The base ESBR for Series EMA sounders and strobes is used for surface mounting and flush-mount or surface-mount cabling.

Features
- All-side cable entry possible, prepared for optional PG screw connections
- Additional terminal on base floor
- Suitable for indoor and outdoor mounting

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP54
Dimensions W × H × D	120 × 90 × 35 (mm)
Colour	red
Weight	70g

Cross-references	Page	Art.No.	Name Type
	262	355112	Sounder/12-24V/Red/Multitone/103dB EMA1224B4-RD
	264	351010	Sounder-Strobe/Red/Red/Conv EMA24FRSSR
	265	356003	Strobe/24V/Red/Orange EMA24RS5A

359008 Base Sounder & Strobe/IP66/Red ESBRS

The base ESBRS with protection class IP66 is needed for surface mounting of Series EMA sounders and strobes, with flush-mount or surface-mount cabling.

Features

- All-side cable entry possible
- Additional terminal on base floor
- Suitable for indoor and outdoor mounting

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP66
Dimensions W × H × D	120 × 90 × 36 (mm)
Colour	red
Weight	72g

Cross-references	Page	Art.No.	Name Type
	262	355112	Sounder/12-24V/Red/Multitone/103dB EMA1224B4-RD
	264	351010	Sounder-Strobe/Red/Red/Conv EMA24FRSSR
	265	356003	Strobe/24V/Red/Orange EMA24RS5A

359005 Lid For Detector Base Sounder/Red DBSLIDR

The red cover plate DBSLIDR is used for mounting a sounder Series DBS without detector base.

Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	263	355114	Sounder/12-24V/White/Multitone DBS1224B4-WD

359006 Lid For Detector Base Sounder/White DBSLIDW

The white cover plate DBSLIDW is used for mounting a sounder Series DBS without detector base.

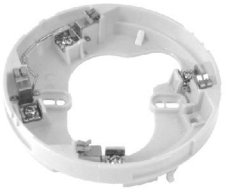
Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	cream, RAL 9001

Cross-references	Page	Art.No.	Name Type
	263	355114	Sounder/12-24V/White/Multitone DBS1224B4-WD

359040 Base Sounder & Strobe/IP24/White LPBW

The base LPBW serves for mounting of sounders, detector base sounders and strobes Series WMS and IBS. Due to the design, the base is covered by the signalling device and therefore cannot be seen nor is the height of devices increased.



A mounting plate is available for surface cabling of the base.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features
- Cable entry from back side
- Multi-wire terminals with secure screw fitting
- Through-connection of loop line via spring contact
- Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP24
Dimensions Ø × D	107 × 21 (mm)
Colour	white
Weight	48g

Cross-references	Page	Art.No.	Name Type
	302	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5
	302	359050	Mounting Plate for Sounder/200/5pcs. DBSPW/5
	278	355163	Sound-Strobe/200ISM/Red/Red/Multi/100dB WMSST-RR-P02
	281	355164	Sounder/200/Ivory/Multitone IBSOU-DD-P01
	274	355160	Sounder/200/Red/Multitone/100dB WMSOU-RR-P01
	274	355168	Sounder/200/White/Multitone/100dB WMSOU-WW-P01
	279	355172	Sounder/200/White/Multitone IBSOU-PW-P01
	281	355165	Sounder/200ISM/Ivory/Multitone IBSOU-DD-P02
	275	355161	Sounder/200ISM/Red/Multitone/100dB WMSOU-RR-P02
	276	355169	Sounder/200ISM/White/Multitone/100dB WMSOU-WW-P02
	280	355173	Sounder/200ISM/White/Multitone IBSOU-PW-P02
	284	355166	Sounder-Strobe/200/Ivory/Red/Multitone IBSST-DR-P01
	277	355162	Sounder-Strobe/200/Red/Red/Multi/100dB WMSST-RR-P01
	282	355174	Sounder-Strobe/200/White/Red/Multitone IBSST-PR-P01
	285	355167	Sounder-Strobe/200ISM/Ivory/Red/Multi IBSST-DR-P02
	283	355175	Sounder-Strobe/200ISM/White/Red/Multi IBSST-PR-P02
	286	356140	Strobe/200/Red WMSTR-WR-P01
	287	356141	Strobe/200ISM/Red WMSTR-WR-P02

359041 Base Sounder & Strobe/IP44/Red SDBR

The base SDBR serves for mounting of sounders and strobes Series WMS. Due to the design of the base, cable entry is possible from the back or from the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features
- Cable entry possible from the back or from the side (in case of surface mount installation)
- Multi-wire terminals with secure screw fitting
- Through-connection of loop line via spring contact
- Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	red
Weight	110g

Cross-references	Page	Art.No.	Name Type
	278	355163	Sound-Strobe/200ISM/Red/Red/Multi/100dB WMSST-RR-P02
	274	355160	Sounder/200/Red/Multitone/100dB WMSOU-RR-P01
	275	355161	Sounder/200ISM/Red/Multitone/100dB WMSOU-RR-P02
	277	355162	Sounder-Strobe/200/Red/Red/Multi/100dB WMSST-RR-P01
	286	356140	Strobe/200/Red WMSTR-WR-P01
	287	356141	Strobe/200ISM/Red WMSTR-WR-P02

359042 Base Sounder & Strobe/IP65/Red WDBR

The base WDBR with protection class IP65 serves for the indoor and outdoor wall mounting of sounders and strobes Series WMS. Due to the design of the base, cable entry is possible from the back or the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- Cable entry possible from the back or the side (in case of surface mount installation)
- Multi-wire terminals with secure screw fitting
- Through-connection of loop line via spring contact
- Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	red
Weight	112g

Cross-references	Page	Art.No.	Name Type
	278	355163	Sound-Strobe/200ISM/Red/Red/Multi/100dB WMSST-RR-P02
	274	355160	Sounder/200/Red/Multitone/100dB WMSOU-RR-P01
	275	355161	Sounder/200ISM/Red/Multitone/100dB WMSOU-RR-P02
	277	355162	Sounder-Strobe/200/Red/Red/Multi/100dB WMSST-RR-P01
	286	356140	Strobe/200/Red WMSTR-WR-P01
	287	356141	Strobe/200ISM/Red WMSTR-WR-P02

359043 Base Sounder & Strobe/IP44/White SDBW

The base SDBW serves for mounting of sounders, detector base sounders and strobes Series WMS and IBS. Due to the design of the base, cable entry is possible from the back or from the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- Cable entry possible from the back or from the side (in case of surface mount installation)
- Multi-wire terminals with secure screw fitting
- Through-connection of loop line via spring contact
- Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	white
Weight	110g

Cross-references	Page	Art.No.	Name Type
	274	355168	Sounder/200/White/Multitone/100dB WMSOU-WW-P01
	279	355172	Sounder/200/White/Multitone IBSOU-PW-P01
	276	355169	Sounder/200ISM/White/Multitone/100dB WMSOU-WW-P02
	280	355173	Sounder/200ISM/White/Multitone IBSOU-PW-P02
	282	355174	Sounder-Strobe/200/White/Red/Multitone IBSST-PR-P01
	283	355175	Sounder-Strobe/200ISM/White/Red/Multi IBSST-PR-P02

359044 Base Sounder & Strobe/IP65/White WDBW

The base WDBW with protection class IP65 serves for the indoor and outdoor wall mounting of sounders and strobes Series WMS. Due to the design of the base, cable entry is possible from the back or the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- Cable entry possible from the back or the side (in case of surface mount installation)
- Multi-wire terminals with secure screw fitting
- Through-connection of loop line via spring contact
- Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	white
Weight	112g

Cross-references	Page	Art.No.	Name Type
	274	355168	Sounder/200/White/Multitone/100dB WMSOU-WW-P01
	276	355169	Sounder/200ISM/White/Multitone/100dB WMSOU-WW-P02

359045 Lid for Sounder/200/10pcs. IBS-LIDPW-10X

The cover lid is used to cover and protect a detector base sounder Series IBS if no detector is inserted, as well as to cover a detector base Series 100, 200, 300, 400 or 500 if the detector has been removed permanently.

Specifications

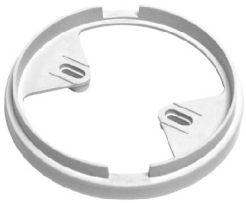
Dimensions Ø × H	112 × 10 (mm)
Colour	white

Cross-references	Page	Art.No.	Name Type
	281	355164	Sounder/200/Ivory/Multitone IBSOU-DD-P01
	279	355172	Sounder/200/White/Multitone IBSOU-PW-P01
	281	355165	Sounder/200ISM/Ivory/Multitone IBSOU-DD-P02
	280	355173	Sounder/200ISM/White/Multitone IBSOU-PW-P02
	284	355166	Sounder-Strobe/200/Ivory/Red/Multitone IBSST-DR-P01
	282	355174	Sounder-Strobe/200/White/Red/Multitone IBSST-PR-P01
	285	355167	Sounder-Strobe/200ISM/Ivory/Red/Multi IBSST-DR-P02

	283	355175	Sounder-Strobe/200ISM/White/Red/Multi IBSST-PR-P02

359050 Mounting Plate for Sounder/200/5pcs. DBSPW/5

The white mounting plate enables the surface cabling of sounders, detector base sounders and strobes Series WMS and IBS in conjunction with the Base LPBW.



The packing unit contains 5 mounting plates.

Specifications

Dimensions Ø × D	107 × 17 (mm)
Additional depth of signalling devices	10mm
Weight	24g
Colour	white

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	278	355163	Sound-Strobe/200ISM/Red/Red/Multi/100dB WMSST-RR-P02
	274	355160	Sounder/200/Red/Multitone/100dB WMSOU-RR-P01
	274	355168	Sounder/200/White/Multitone/100dB WMSOU-WW-P01
	279	355172	Sounder/200/White/Multitone IBSOU-PW-P01
	275	355161	Sounder/200ISM/Red/Multitone/100dB WMSOU-RR-P02
	276	355169	Sounder/200ISM/White/Multitone/100dB WMSOU-WW-P02
	280	355173	Sounder/200ISM/White/Multitone IBSOU-PW-P02
	277	355162	Sounder-Strobe/200/Red/Red/Multi/100dB WMSST-RR-P01
	282	355174	Sounder-Strobe/200/White/Red/Multitone IBSST-PR-P01
	283	355175	Sounder-Strobe/200ISM/White/Red/Multi IBSST-PR-P02
	286	356140	Strobe/200/Red WMSTR-WR-P01
	287	356141	Strobe/200ISM/Red WMSTR-WR-P02

359049 Mounting Plate for Sounder/200/5pcs. DBSPD/5

The cream-coloured mounting plate enables the surface cabling of detector base sounders and strobes Series IBS in conjunction with the Base LPBW.

Specifications

Dimensions Ø × D	107 × 17 (mm)
Additional depth of signalling devices	10mm
Weight	24g
Colour	cream

Cross-references	Page	Art.No.	Name Type
	299	359040	Base Sounder & Strobe/IP24/White LPBW
	281	355164	Sounder/200/Ivory/Multitone IBSOU-DD-P01
	281	355165	Sounder/200ISM/Ivory/Multitone IBSOU-DD-P02
	284	355166	Sounder-Strobe/200/Ivory/Red/Multitone IBSST-DR-P01
	285	355167	Sounder-Strobe/200ISM/Ivory/Red/Multi IBSST-DR-P02

359020 Lid for Sounder/White 45681-292

The white cover lid serves for the protection of an addressable detector base sounder Series XP95, if no detector is inserted.

Specifications

Dimensions Ø × H	100 × 9 (mm)
Weight	20g
Colour	white

Cross-references	Page	Art.No.	Name Type
	291	355134	Sound-Strobe/XP95ISM/White/Clear/Alert 45681-330
	292	355135	Sound-Strobe/XP95ISM/White/Clear/Slow-W 45681-332
	292	355136	Sounder-Strobe/XP95ISM/White/Clear/DIN 45681-334
	287	355133	Sounder/XP95ISM/White/Alert 45681-277
	288	355132	Sounder/XP95ISM/White/DIN 45681-300
	288	355131	Sounder/XP95ISM/White/Slow-Whoop 45681-290

359021 Lid for Sounder/Red 45681-293

The red cover lid serves for the protection of an addressable detector base sounder Series XP95, if no detector is inserted.

Specifications

Dimensions Ø × H	100 × 9 (mm)
Weight	20g
Colour	red

Cross-references	Page	Art.No.	Name Type
	291	355134	Sound-Strobe/XP95ISM/White/Clear/Alert 45681-330
	292	355135	Sound-Strobe/XP95ISM/White/Clear/Slow-W 45681-332
	292	355136	Sounder-Strobe/XP95ISM/White/Clear/DIN 45681-334
	287	355133	Sounder/XP95ISM/White/Alert 45681-277
	288	355132	Sounder/XP95ISM/White/DIN 45681-300
	288	355131	Sounder/XP95ISM/White/Slow-Whoop 45681-290

359022 Mounting Plate for Sounder/XP95 38531-810

The white mounting plate is used for surface-mount cabling of an addressable detector base sounder Series XP95.

Specifications

Dimensions Ø × H	116 × 11 (mm)
Weight	28g
Colour	white

Cross-references	Page	Art.No.	Name Type
	291	355134	Sound-Strobe/XP95ISM/White/Clear/Alert 45681-330
	292	355135	Sound-Strobe/XP95ISM/White/Clear/Slow-W 45681-332
	292	355136	Sounder-Strobe/XP95ISM/White/Clear/DIN 45681-334
	287	355133	Sounder/XP95ISM/White/Alert 45681-277
	288	355132	Sounder/XP95ISM/White/DIN 45681-300
	288	355131	Sounder/XP95ISM/White/Slow-Whoop 45681-290
	290	355130	Sounder/XP95RI/White/Alert 45681-276

359023 Housing IP67 for Strobe/XP95 29600-318

The protection housing 29600-318 consists of a grey bottom part made of plastic and a transparent cover. The housing protects an addressable loop-powered strobe Series XP95 from dust and humidity.

Specifications

Ambient temperature	-40°C to +80°C
Protection class	IP67
Dimensions W × H × D	125 × 125 × 100 (mm)
Weight	292g

Cross-references	Page	Art.No.	Name Type
	295	356022	Strobe/XP95/White/Clear 55000-878
	296	356023	Strobe/XP95/White/Orange 55000-879
	295	356020	Strobe/XP95/White/Red 55000-877

29 Fire Brigade Key Boxes and Accessories

265740 Fire Brigade Key Box FSK700-2/D1

The Fire Brigade Key Box FSK700-2 is certified according to VdS 2105 and serves for the theft-proof and copy-protected safekeeping of a key which allows the fire brigade fast and non-violent access to the building in the event of fire. Housing and blind frame are made of 5mm stainless steel and, therefore, provide not only mechanical stability but also high corrosion resistance. A standard built-in heating device (5W) guarantees unhindered opening of the outer door even at low temperatures. The key box can be connected to an existing burglar alarm system without any additional items. The electric components of the key box are designed for an operating voltage of 12 to 24VDC, which allows the Fire Brigade Key Box FSK700-2 to be connected via the Control Unit AD900-1 to any fire detection control panel (even from other manufacturers).

Features

- High mechanical safety due to use of strong materials and intelligent design
- High corrosion resistance, entire body construction made of stainless steel V2A
- Burglar alarm surveillance for the following componentries and functions
  - Outer door protected against drilling and forced opening
  - Correct deposit of the key in the cylinder of the console
- Application of all locking systems possible due to a variety of optional inner doors
- Buzzer for indication of incorrect deposit of key
- Heating device for outer door
- Optional flush mounting frame enables preparation for installation; also available with all-side drilling protection
- Adjusting options for even alignment of the key box
- Installation in optional key depot column possible

Specifications

Operating voltage	12/24VDC ± 15%
Duty cycle of electromagnet	100%
Current consumption at 12/24VDC	typ. 260mA
Outer door heating	24VAC/DC/5VA
Resistance of alarm circuit	2.2kOhm ±5%
Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions W × H × D	280 × 264 × 145 (mm)
Weight	16kg
Approval	VdS G199055

Cross-references	Page	Art.No.	Name Type
	309	265744	Auxiliary Cylinder PHZ700-2
	311	265900	Control Unit for FSK AD900-1/D1
	307	265818	Flush Mount. Frame/Drilling Protection EZBS700-2
	307	265751	Flush Mounting Frame For FSK700-2 EZ700-2/D1
	308	265753	Inner Door For FSK700-2/2SX/DBUS ITB-2/D1
	309	265757	Inner Door For FSK700-2/DBUS ITF-2/D1
	308	265752	Inner Door for FSK700-2/PHZ/30.5mm ITA-2/D1
	308	265748	Inner Door for FSK700-2/PHZ/35.5mm ITA-3/D1
	311	265810	Key Depot Column SDS700-2
	310	237700	Power Supply For FSK Heating NT700-1
	310	249650	Protective Cover for FSK700-2/2SX WSD-FSK
	314	265660	Unblocking Element F0345
	315	265661	Unblocking Element for Half Cylinder FSE-MP1

265742 Fire Brigade Key Box FSK700-2SX/D1

The Fire Brigade Key Box FSK700-2SX is tested according to VdS 2105 and serves for theft-save and copy-protected keeping of up to four keys of a building, which allows the fire brigade fast and non-violent access to the building in case of fire. If several separate user areas of the fire detection system exist or if keys for several fire brigade groups are needed, it is also necessary to keep these keys separately in the fire brigade key box. In the basic version, the fire brigade key box can already accommodate two keys, and by means of the mounting bracket for profile half cylinder it can be expanded to a version for 3 or 4 keys. After opening the outer and inner door in the event of an alarm, the rescue forces can take out the key that is needed for the respective operation.

All half cylinders are monitored for proper key storage and removal by the Control Unit AD900-1. The box and the front plate consist of 5mm stainless steel and hence offer mechanic stability and high resistance against corrosion. An integrated heating device (5W) guarantees the opening of the outer door even in case of low temperatures. The key box can be connected to an existing burglar alarm system without any additional items. The electrical components of the key box are designed for an operating voltage of 12 or 24VDC, thus enabling the connection to all fire detection control panels (also products from other manufacturers) via the Control Unit AD900-1.

Features

- Separate storage of two, three or four building keys
- High mechanical safety through application of strong materials and sophisticated construction
- High corrosion resistance, entire body construction made of stainless steel V2A
- Burglar alarm surveillance for the following componentries and functions
  - Outer door protected against drilling and forced opening
  - Correct deposit of all keys in the cylinder of the console
- Application of all locking systems possible due to a variety of optional inner doors
- Buzzer for signalling inappropriate storage of the keys
- Heating device for outer door
- Optional flush mounting frame enables preparation for installation; also available with all-side drilling protection
- Adjustment possible for flush mounting of the key box
- Installation in an optional key depot column possible

Specifications

Operating voltage	12/24VDC ± 15%
Duty cycle electromagnet	100%
Current consumption at 12/24VDC	typ. 260mA
Outer door heating	24VAC/5VA
Resistance of the alarm circuit	2.2kOhm ±5%
Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions W × H × D	280 × 264 × 145 (mm)
Weight	16kg
Approval	VdS G199055

Cross-references	Page	Art.No.	Name Type
	309	265744	Auxiliary Cylinder PHZ700-2
	311	265900	Control Unit for FSK AD900-1/D1
	307	265818	Flush Mount. Frame/Drilling Protection EZBS700-2
	307	265751	Flush Mounting Frame For FSK700-2 EZ700-2/D1
	308	265753	Inner Door For FSK700-2/2SX/DBUS ITB-2/D1
	309	265757	Inner Door For FSK700-2/DBUS ITF-2/D1
	308	265752	Inner Door for FSK700-2/PHZ/30.5mm ITA-2/D1
	308	265748	Inner Door for FSK700-2/PHZ/35.5mm ITA-3/D1
	311	265810	Key Depot Column SDS700-2
	309	265743	Mounting Bracket/Profile Half Cylinder PHZAW700-2
	310	237700	Power Supply For FSK Heating NT700-1
	310	249650	Protective Cover for FSK700-2/2SX WSD-FSK
	314	265660	Unblocking Element F0345

315	265661	Unblocking Element for Half Cylinder FSE-MP1

265751 Flush Mounting Frame For FSK700-2 EZ700-2/D1

The flush mounting frame, made of galvanised sheet steel, allows easy flush mounting of a Fire Brigade Key Box FSK700-2 or FSK700-2SX as well as installation into a Key Depot Column SDS700-2 with concrete filling. In the construction phase of the building, the flush mounting frame is embedded in a wall, or the flush mounting frame is mounted into the column and the column is filled with concrete. When the construction work has been finished, the fire brigade key box can be inserted and screwed on. Later on, it can also be disassembled easily.

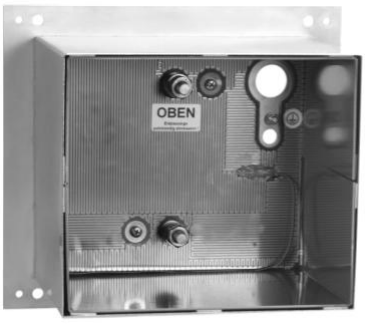
Specifications

Dimensions W × H × D	275 × 245 × 160 (mm)
Weight	3.3kg
Approvals	VdS G106058 VdS G199055

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1
	311	265810	Key Depot Column SDS700-2

265818 Flush Mount. Frame/Drilling Protection EZBS700-2

The flush mounting frame is made of galvanised sheet steel and allows easy flush mounting of a Fire Brigade Key Box FSK700-2 or FSK700-2SX. In order to fulfil VdS 2350, an all-side drilling protection is integrated as standard. As a result, an FSK700-2/2SX can even be installed into a Key Depot Column SDS700-2 without concrete filling, or on the outside of a building where the wall does not provide sufficient protection against sabotage.



Specifications

Dimensions W × H × D	275 × 245 × 160
Weight	3.5kg
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1
	311	265810	Key Depot Column SDS700-2

265752 Inner Door for FSK700-2/PHZ/30.5mm ITA-2/D1

The inner door for the Fire Brigade Key Box FSK700-2 or FSK700-2SX is made of 5mm stainless steel. The lock which is mounted on the door is suitable for a profile half cylinder with 30.5mm cylinder length. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 40 (mm)
Weight	0.5kg

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265748 Inner Door for FSK700-2/PHZ/35.5mm ITA-3/D1

The inner door for the Fire Brigade Key Box FSK700 or FSK700-2SX is made of 5mm stainless steel. The lock which is mounted on the door is suitable for a profile half cylinder with 35.5mm cylinder length. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 40 (mm)
Weight	0.5kg

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265753 Inner Door For FSK700-2/2SX/DBUS ITB-2/D1

The inner door for the Fire Brigade Key Box FSK700 or FSK700-2SX is made of 5mm stainless steel sheet and is suitable for installation of the double-bit locks Type 2 and Type 2005. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 5 (mm)
Weight	0.4kg

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265757 Inner Door For FSK700-2/DBUS ITF-2/D1

The inner door for the Fire Brigade Key Box FSK700 or FSK700-2SX is made of 5mm stainless steel sheet and is suitable for installation of the double-bit lock Type 70091/92. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 5 (mm)
Weight	0.4kg

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265743 Mounting Bracket/Profile Half Cylinder PHZAW700-2

By means of the mounting bracket for profile half cylinder PHZAW700-2, the Fire Brigade Key Box FSK700-2SX can be upgraded from a two-key model to a version for three or four building keys.

Cross-references	Page	Art.No.	Name Type
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265744 Auxiliary Cylinder PHZ700-2

The standardised Auxiliary Cylinder PHZ700-2 can be installed into a Fire Brigade Key Box FSK700 instead of the profile half cylinder for the building key. In this case, one or more building keys are attached by means of a chain link.

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

249650 Protective Cover for FSK700-2/2SX WSD-FSK

The protective cover WSD-FSK is made of V2A stainless steel and provides the Fire Brigade Key Box FSK700-2 or FSK700-2SX with additional protection against moisture in the area of the outer door, when raining water penetrates this area from the top or from the side. The protective cover is easily placed from the top behind the trim frame of the fire brigade key box.

Specifications

Dimensions W × H × D	287 × 267 × 55 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

237700 Power Supply For FSK Heating NT700-1

The power supply unit NT700-1 provides the voltage supply for the exterior door heating of the Fire Brigade Key Boxes FSK700-2 and FSK700-2SX. The power supply unit is integrated in a surface mounting box that is suitable for DIN rail mounting. A circuit breaker is installed for overload and short-circuit protection.

Specifications

Operating voltage	230VAC +10/-15%, 50Hz
Output voltage	24VAC
Protection class	IP30
Ambient temperature	0°C to +70°C
Dimensions W × H × D	110 × 180 × 80 (mm)
Weight	900g

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265900 Control Unit for FSK AD900-1/D1

The Control Unit AD900-1/D1, according to VdS 2105, is used for monitoring and control of the fire brigade key box. The unit is accommodated in a grey white steel sheet case, suitable for surface indoor mounting. The optical indicators 'Power', 'Key Box alarm, 'Key Box unlocked' and 'Key removed' are clearly arranged and indicate the operating conditions of the system. The AD900-1/D1 is able to monitor all stored keys in the Fire Brigade Key Box FSK700-2SX for proper storage and removal, and to optically indicate the corresponding key. The operating voltage of 10-30VDC enables the connection to all commercial control panels without adjustment. Numerous adaptations to specific system conditions (actuation with High or Low signal, static or dynamic transmission of key box alarm to the fire detection or burglar alarm control panel, open-circuit or closed-circuit operation) are possible by means of the DIL switch. Opening of the unit is monitored by a door contact.

Features

- Easy adaptation to different system configurations via DIL switch
- Function testing of box monitoring with button
- Reset of alarm memory with button
- Temporary unlocking for testing with button

Specifications

Operating voltage	10 - 30VDC
Current consumption	max. 20mA (without box locking system)
Ambient temperature	-10°C to +50°C
Protection class	IP30
Dimensions W × H × D	137 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	1.2 kg
Approval	VdS G105045

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1

265810 Key Depot Column SDS700-2

The key depot column is made of 3mm stainless steel and provides a platform for mounting a Fire Brigade Key Box FSK700-2/2SX and an unblocking element, if installing the key box in the building facade is not possible due to technical or structural reasons. The key depot column consists of a U-shaped body and the back plate, which can be removed for easy installation. If necessary, a strobe can be mounted on the top cover of the column. Optionally, further devices such as an orientation lamp for the fire brigade can be installed.

The key depot column can be used as vertical column with concrete filling or as hollow column without concrete filling. For the different ways of mounting the key depot column, the Reinforcement Iron Cage MEK700-2 or the mounting kit Heavy Duty Anchor SLA700-2 are available.

Features

- Allows installation of a standard flush mounting frame or a flush mounting frame with all-side drilling protection, which can accommodate the FSK700-2/2SX
- Easy installation of various unblocking elements
- Extensive mounting accessories
- Flexible armoured tube for different types of cables
- Surface made of polished stainless steel

Specifications

Dimensions W × H × D	400 × 1240 × 300 (mm)
Weight	45.6kg (without installations)
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	314	265809	Cover Plate ADP700-2
	314	265816	Distribution Box for SDS700-2 VT700-2
	312	265811	Heavy Duty Anchor SLA700-2
	315	265814	Mounting Kit for FSE-PZ MOSET1/700-2
	315	265815	Mounting Kit for FSE Type 2 and FSE-A MOSET2/700-2
	312	265812	Reinforcement Iron Cage MEK700-2
	313	265813	Top Cover Contact DK700-2
	313	265817	Top Cover DA1/700-2
	313	265819	Top Cover for Strobe DA2/700-2
	314	265660	Unblocking Element F0345
	315	265661	Unblocking Element for Half Cylinder FSE-MP1

265812 Reinforcement Iron Cage MEK700-2

The reinforcement iron cage serves to reinforce the key depot column when it is used as vertical column with concrete filling. The delivery scope includes 4 anchor rods and splicing wire.

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

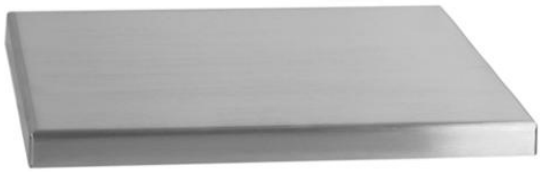
265811 Heavy Duty Anchor SLA700-2

The Heavy Duty Anchor SLA700-2 is a mounting kit which consists of four M12 chemical anchor capsules, 4 threaded anchor rods M12 x 160 (mm), 4 washers and 4 hexagon nuts.

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

265817 Top Cover DA1/700-2

The flat top cover with edged sides is made of 3mm stainless steel and is required for covering the Key Depot Column SDS700-2. The mounting material is included in the delivery.



Specifications

Dimensions W × H × D	410 × 30 × 320 (mm)
Weight	approx. 3.6kg

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

265819 Top Cover for Strobe DA2/700-2

The flat top cover with edged sides is made of 3mm stainless steel and is required for covering the Key Depot Column SDS700-2. The cover is prepared for installing strobes in various colours. The mounting material is included in the delivery.

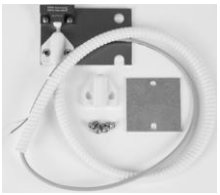
Specifications

Dimensions W × H × D	410 × 30 × 320 (mm)
Weight	approx. 3.6kg

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

265813 Top Cover Contact DK700-2

The top cover contact is used for monitoring the idle position of the cover plate of a key depot column. The delivery scope includes a flexible cable in a tube, a steel plate and the mounting material.



Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2
	313	265817	Top Cover DA1/700-2
	313	265819	Top Cover for Strobe DA2/700-2

265809 Cover Plate ADP700-2

The cover plate is made of 3mm V2A stainless steel and is used for covering the cut-out for unblocking elements in the Key Depot Column SDS700-2, if no unblocking element is installed.

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

265816 Distribution Box for SDS700-2 VT700-2

By means of the Distribution Box VT700-2, the FSK700-2 or FSK700-2SX and further components such as an unblocking element or a strobe can be cabled in compliance with the relevant standards, if the Key Depot Column SDS700-2 is only connected via one cable and the column is not filled with concrete. The article consists of a VdS Class C distribution box P2002K, which has been mounted in an IP66 housing and which is equipped with 2 tamper switches and 2 terminal strips in LSA Plus technology.

Specifications

Dimensions W × H × D	182 × 180 × 90 (mm)
Colour	light grey, RAL 7035
Weight	0.9kg
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2

265660 Unblocking Element F0345

The VdS approved unblocking element, which is made of stainless steel, is used as additional unlocking device for fire brigade key boxes and is suitable for installation into the Key Depot Column SDS700-2. The integrated micro-switch with change-over contact is intended for connection to the fire detection control panel. The unblocking element, which is delivered with a 10m long connection cable, is designed for installation of a drill-protected lock by ABLOY.

Specifications

Dimensions Ø × L	42 × 80 (mm)
Approval	VdS G192034

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1
	311	265810	Key Depot Column SDS700-2

265661 Unblocking Element for Half Cylinder FSE-MP1

The VdS approved unblocking element is used as additional unlocking device for fire brigade key boxes and is suitable for installation into the Key Depot Column SDS700-2 or for flush mounting. The integrated micro-switch with change-over contact is intended for connection to the fire detection control panel. The unblocking element, which is delivered with a 10m long connection cable, is prepared for the installation of a profile half cylinder.

Specifications

Dimensions Ø × L	62 × 70 (mm)
Approval	VdS G199083

Cross-references	Page	Art.No.	Name Type
	305	265740	Fire Brigade Key Box FSK700-2/D1
	306	265742	Fire Brigade Key Box FSK700-2SX/D1
	311	265810	Key Depot Column SDS700-2

265814 Mounting Kit for FSE-PZ MOSET1/700-2

The mounting kit is used for installing an unblocking element for a profile half cylinder in a key depot column and consists of a flexible armoured plastic tube, a screw joint and mounting screws.

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2
	315	265661	Unblocking Element for Half Cylinder FSE-MP1

265815 Mounting Kit for FSE Type 2 and FSE-A MOSET2/700-2

The mounting kit is used for installing an unblocking element with an ABLOY lock in a key depot column and consists of the mounting case with a front panel made of V2A stainless steel, a flexible armoured plastic tube, a screw joint and the mounting material.

Cross-references	Page	Art.No.	Name Type
	311	265810	Key Depot Column SDS700-2
	314	265660	Unblocking Element F0345

268009 Fire Brigade Key Box FASB-AP

The fire brigade key deposit FASB-AP for surface mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.

Features
- Key deposit made of powder coated steel sheet
- Easy to mount

Specifications

Colour	pebble-grey, RAL 7032
Dimensions W × H × D	150 × 150 × 57 (mm)

Cross-references	Page	Art.No.	Name Type
	317	265019	Cylinder for Steel Sheet Mounting LST102
	317	268012	Key for Fire Brigade Key Deposit 882AML102

268010 Fire Brigade Key Box FASB-UP

The fire brigade key deposit FASB-UP for flush mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and lokked simply by means of the cylinder lock.

Features
- Key deposit made of powder coated steel sheet
- Easy to mount

Specifications

Colour	pebble-grey, RAL 7032
Dimensions W × H × D	150 × 150 × 57 (mm)

Cross-references	Page	Art.No.	Name Type
	317	265019	Cylinder for Steel Sheet Mounting LST102
	317	268012	Key for Fire Brigade Key Deposit 882AML102

265019 Cylinder for Steel Sheet Mounting LST102

The cylinder for steel sheet mounting with the new magnetic lock system customised for LST is designed for installation into the fire brigade key deposit FASB.

Cross-references	Page	Art.No.	Name Type
	316	268009	Fire Brigade Key Box FASB-AP
	316	268010	Fire Brigade Key Box FASB-UP
	317	268012	Key for Fire Brigade Key Deposit 882AML102

268012 Key for Fire Brigade Key Deposit 882AML102

The Key 882AML102 fits the magnetic lock cylinder for steel sheet mounting, which is used for installation into the fire brigade key deposit FASB.

Cross-references	Page	Art.No.	Name Type
	317	265019	Cylinder for Steel Sheet Mounting LST102

30 Fire Brigade Control and Display Devices

250025 Fire Brigade Control Unit FBF70-1/S1

The Swedish version of the Fire Brigade Control Unit FBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC016 or BC216 by means of light emitting diodes and an additional text display, as well as to allow the fire brigade personnel to operate a fire detection system in an easy and standardised way. The operating elements are labelled in Swedish language.

In addition, a lock according to the standard SS 3654 is integrated in the fire brigade control unit. By means of this lock, the fire brigade personnel can directly access authorization level 2.

On the integrated 4-line LC display, alarms of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll buttons. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit as well as the function of the inputs and outputs can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and with that, the control unit can be provided with functions which may be required in the future.

The Fire Brigade Control Unit FBF70-1 is actuated via the INFO bus of the control panel. The fire brigade control unit can be connected to a Fire Detection Control Panel Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips
- Sheet steel housing for wall mounting

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	typ. 15mA (quiescent) typ. 55mA (display test)
Baud rate	600, 1200, 2400, 4800 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	250 × 174 × 30 (mm)
Colour housing	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	23	214093	BCnet Control Panel with Operat. BC216-2/S1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	28	214112	Fire Detection Control Panel 19" BC216-1CE/S1
	8	210103	Fire Detection Control Panel BC016-1/S1
	15	214092	Fire Detection Control Panel BC216-1/S1
	18	214391	Fire Detection Control Panel BC216-1S/S1
	10	210112	Serial Interface Module SIM016-3

250026 Alarm Delay Control Unit IBF70-1/S1

The Swedish version of the Alarm Delay Control Unit IBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC016 or BC216 by means of light emitting diodes and an additional text display, as well as for operating the alarm delay procedure of the transmitting device at a site that is remote from the fire detection control panel. The operating elements are labelled in Swedish language.

On the integrated 4-line LC display, alarms of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll buttons. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit, the function of the inputs and outputs, and sectors for the alarm delay procedure can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and with that, the control unit can be provided with functions which may be required in the future.

The Alarm Delay Control Unit IBF70-1 is actuated via the INFO bus of the control panel. The control unit can be connected to a Fire Detection Control Panel Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips
- Sheet steel housing for wall mounting

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	typ. 15mA (quiescent) typ. 55mA (display test)
Baud rate	600, 1200, 2400, 4800 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	250 × 174 × 30 (mm)
Colour housing	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	23	214093	BCnet Control Panel with Operat. BC216-2/S1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	28	214112	Fire Detection Control Panel 19" BC216-1CE/S1
	8	210103	Fire Detection Control Panel BC016-1/S1
	15	214092	Fire Detection Control Panel BC216-1/S1
	18	214391	Fire Detection Control Panel BC216-1S/S1
	10	210112	Serial Interface Module SIM016-3

250008 Fire Brigade Control Unit FBF58-2

The operating panel FBF58-2 is designed according to "Variant B" of ÖNORM F 3031.

It provides an optical indication of the most important operating conditions of the fire detection control panel via light emitting diodes and an additional text display, as well as easy and uniform operation of a fire detection system by the fire brigade personnel.

The fire brigade control unit is controlled via the INFO bus of the control panel. Connection to a Fire Detection Control Panel Series BC216 can be achieved without additional modules. For connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- 2-line LC-display for clear information
- Scroll buttons for the display
- Green LED for operation
- Red LED for alarm
- Yellow LED for fault/disablement
- 2 LEDs for FDCPs with extinguishing system
- Button for silencing the siren
- Button for silencing the FDCP
- Button for testing the lamps
- Button for resetting the FDCP
- Metal case with glass door

Specifications

Supply voltage	15 to 31VDC
Current consumption at 24VDC	15mA (quiescent), 55mA (active)
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 300 × 50 (mm)
Colour	flame red, RAL 3000
Weight	1.4kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	10	210112	Serial Interface Module SIM016-3

250740 Fire Brigade Control Unit FBF900-1/D1

The Fire Brigade Control Unit FBF900-1/D1 according to DIN 14661 is used for connection to fire detection systems. The control unit provides an optical display for the most important operating conditions of the fire detection control panel to facilitate and standardise the operation of a fire detection system for the fire brigade.

A direct connection to Fire Detection Control Panels Series BC216 can be established via a Fire Brigade Interface FWI2-1, whereas Fire Detection Control Panels Series BC016 can be connected via the Fire Brigade Interface FWI016-1. Parameters for in- and outputs are set at the control panel.

Thanks to the actuation in positive or negative logic, which can be individually selected for each input, and the operating voltage range from 10 to 30V, the FBF900-1/D1 can also be connected to fire detection control panels of other manufacturers.

Features

- Green LED indicator for 'Operation'
- Red LED indicator for 'Panel summary alarm'
- Red LED indicator for 'Extinguishing systems activated'
- Yellow LED indicator for 'Acoustic signals off'
- Yellow LED indicator for 'Transmitting device disabled'
- Yellow LED indicator for 'Transmitting device activated'
- Yellow LED indicator for 'Fire controls off'
- Switch 'Acoustic signals off'
- Button 'Panel reset' with safety cover
- Switch 'Transmitting device off'
- Button 'Testing transmitting device'
- Metal case with glass door
- Prepared for a half cylinder locking mechanism

Specifications

Operating voltage	10 - 30VDC
Current consumption at 12VDC	< 20mA (quiescent), < 50mA (alarm)
Current consumption at 24VDC	< 20mA (quiescent), < 50mA (alarm)
Environmental class	II
Protection class	IP30
Dimensions W × H × D	225 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	2kg
Approval	VdS G200079

Cross-references	Page	Art.No.	Name Type
	10	210111	Fire Brigade Interface FWI016-1
	37	214022	Fire Brigade Interface FWI2-1

250741 Fire Brigade Control Unit FBF900-2/D1

The Fire Brigade Control Unit FBF900-2/D1 according to DIN 14661 is used for connection to fire detection systems. The control unit provides an optical display of the most important operating conditions of the fire detection control panel to facilitate and standardise the operation of a fire detection system for the fire brigade.

The fire brigade control unit can be directly connected to the Fire Detection Control Panels Series BC216 via a Fire Brigade Interface FWI2-1,

whereas a connection to the Fire Detection Control Panels Series BC016 is established via the Fire Brigade Interface FWI016-1.

Features

- Green LED indicator for 'Operation'
- Red LED indicator for 'Panel summary alarm'
- Red LED indicator for 'Extinguishing systems activated'
- Yellow LED indicator for 'Acoustic signals off'
- Yellow LED indicator for 'Transmitting device disabled'
- Yellow LED indicator for 'Transmitting device activated'
- Yellow LED indicator for 'Fire control off'
- Switch 'Acoustic signals off'
- Button 'Panel reset' with safety cover
- Switch 'Transmitting device off'
- Button 'Test transmitting device'
- Metal case with glass door
- Prepared for a half cylinder locking mechanism

Specifications

Operating voltage	20 - 30VDC
Current consumption	< 12mA (quiescent), < 80mA (alarm)
Environmental class	II
Protection class	IP30
Dimensions W × H × D	225 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	2kg
Approval	VdS G200091

Cross-references	Page	Art.No.	Name Type
	10	210111	Fire Brigade Interface FWI016-1
	37	214022	Fire Brigade Interface FWI2-1

250707 Fire Brigade Display Panel FAT900-1/D1

The Fire Brigade Display Panel FAT900-1/D1, according to DIN 14662, is an ancillary device for fire detection systems and provides acoustic and optic display of events from detectors, detector zones and system conditions of Fire Detection Control Panels Series BC016 and BC216 on a remote site. The standardised and clear design is user friendly and allows the fire brigade personnel a quick overview of the relevant information and an easy operation.

The Fire Brigade Display Panel FAT900-1/D1 is directly connected to the INFO bus of a Fire Detection Control Panel Series BC216. A Serial Interface Module SIM016-3 is required for connection to a Fire Detection Control Panel Series BC016. The power is supplied by the control panel and is therefore backed up by stand-by batteries. Event text messages from the control panel are displayed by default. Additional texts can be programmed using the FatProgWin PC software. The case is equipped with a lock for half cylinders. The cylinder lock has to be installed in compliance with the local fire brigade.

Features

- Green LED indicator for 'operation'
- Red LED indicator for 'alarm'
- Yellow LED indicator for 'fault and disablement'
- Button 'display level'
- Button 'buzzer off'
- Button 'scroll forwards'
- Button 'scroll backwards'

- 4 line by 20 character backlit display
- Metal case with glass door
- Lock for half cylinders

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	30mA (quiescent), 90mA (alarm)
Baudrate	1200 baud (can be changed with FatProgWin)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	225 × 180 × 58 (mm)
Colour	grey white, RAL 9002
Weight	3.5kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	10	210112	Serial Interface Module SIM016-3

250900 Fire Brigade Display Panel FAT900-2/D1

The Fire Brigade Display Panel FAT900-2/D1 in redundant design is, according to DIN 14662, an ancillary device for fire detection systems and provides acoustic and optic display of events from detectors, detector zones and system conditions of the Fire Detection Control Panels Series BC016 and BC216 on a remote site. The standardised and clear design is user friendly and allows the fire brigade a quick overview of all relevant information and an easy operation.

The Fire Brigade Display Panel FAT900-2/D1 is connected to the INFO bus of the Fire Detection Control Panels BC016 or BC216. The optional Redundant Transmission Adapter ADFAT900-2/D1 has to be installed in the control panel to guarantee redundant data transfer. The power is supplied by the control panel and is therefore backed up by stand-by batteries. Event text messages from the control panel are displayed by default. Additional text messages can be programmed using the FatProgWin PC software. The case is equipped with a lock for half cylinders. The cylinder lock has to be installed in compliance with the local fire brigade.

Features

- Green LED indicator for 'Operation'
- Red LED indicator for 'Alarm'
- Yellow LED indicator for 'Fault'
- Yellow LED indicator for 'Disablement'
- Button 'Display level'
- Button 'Buzzer off'
- Button 'Scroll forwards'
- Button 'Scroll backwards'
- 4 line by 20 character backlit display
- Metal case with glass door
- Lock for half cylinders

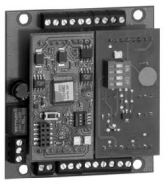
Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	30mA (quiescent), 90mA (alarm)
Baudrate	1200 baud (can be changed with FatProgWin)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	225 × 180 × 58 (mm)
Colour	grey white, RAL 9002
Weight	3.5kg
Approval	VdS G205090

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	324	250901	Redundant Transmission Adapter ADFAT900-2/D1
	10	210112	Serial Interface Module SIM016-3

250901 Redundant Transmission Adapter ADFAT900-2/D1

The Redundant Transmission Adapter ADFAT900-2/D1 allows for the redundant connection of the Fire Brigade Display Panel FAT900-2/D1 and the Fire Brigade Orientation Panel FOTR900-2/D1 to Fire Detection Control Panels Series BC016 or BC216. For installation in the control panel, the module is mounted on the mounting bracket of the control panel by using the provided printed circuit board spacers made of PVC.



Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	20mA
Ambient temperature	0°C to +50°C
Dimensions W × H × D	72 × 65 × 25 (mm)
Weight	100g
Approval	VdS G200079

Cross-references	Page	Art.No.	Name Type
	323	250900	Fire Brigade Display Panel FAT900-2/D1
	326	250902	Fire Brigade Orientation Panel FOTR900-2/D1

250717 Fire Brigade Orientation Panel FOTR900-1/D1

The Fire Brigade Orientation Panel FOTR900-1/D provides the fire brigade on-site quickly with precise information. It contains the Fire Brigade Control Unit FBF900-1/D1 according to DIN 14661 for the operation of Fire Detection Control Panels Series BC016 or BC216 by the fire brigade, and the Fire Brigade Display Panel FAT900-1/D1 according to DIN 14662 for information retrieval.

Both devices are accommodated in a powder coated steel sheet case, coloured in red. Other colours are possible on request. A lock for half cylinders is mounted in the case of the Fire Brigade Orientation Panel FOTR900-1/D.

The Fire Brigade Orientation Panel FOTR900-1/D1 can be combined with the Fire Brigade Map Box FPKCLR900-1/D1 (DOM-CL1-lock) or FPKPHZR900-1/D1 (lock for half cylinders) to a compact unit.

Features

- Integrated Fire Brigade Display Panel FAT900-1/D1
- Integrated Fire Brigade Control Unit FBF900-1/D1
- Lock for half cylinders

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	50mA (quiescent), 150mA (alarm)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	230 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	3.7kg

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	10	210111	Fire Brigade Interface FWI016-1
	37	214022	Fire Brigade Interface FWI2-1
	328	250709	Fire Brigade Map Box FPKCLR900-1
	328	250713	Fire Brigade Map Box FPKPHZR900-1/D1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	10	210112	Serial Interface Module SIM016-3

250902 Fire Brigade Orientation Panel FOTR900-2/D1

The Fire Brigade Orientation Panel FOTR900-2/D1 in redundant design, according to DIN 14662, provides the fire brigade on site quickly with the first precise information on the condition of the fire detection system. It includes the Fire Brigade Control Unit FBF900-1/D1 according to DIN 14661 for the operation of Fire Detection Control Panels Series BC016 or BC216 by the fire brigade, and the Fire Brigade Display Panel FAT900-2/D1 according to DIN 14662 for information retrieval.

A redundant connection to a Fire Detection Control Panel BC016 or BC216 can be established by means of the Redundant Transmission Adapter ADFAT900-2/D1, which has to be installed in the control panel.

Both devices are accommodated in a powder coated steel sheet case, coloured in red. Other colours are possible on request. A lock for half cylinders is mounted in the case of Fire Brigade Orientation Panel FOTR900-2/D1.

The Fire Brigade Orientation Panel FOTR900-2/D1 can be combined with the Fire Brigade Map Box FPKCLR900-1/D1 (DOM-CL1-lock) or FPKPHZR900-1/D1 (lock for half cylinders) to a compact unit.

Features

- Integrated Fire Brigade Display Panel FAT900-2/D1
- Integrated Fire Brigade Control Unit FBF900-1/D1
- Lock for half cylinders

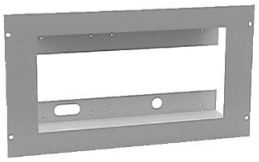
Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	50mA (quiescent), 150mA (alarm)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	230 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	3.7kg
Approvals	VdS G200079 VdS G205090

Cross-references	Page	Art.No.	Name Type
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	10	210111	Fire Brigade Interface FWI016-1
	37	214022	Fire Brigade Interface FWI2-1
	328	250709	Fire Brigade Map Box FPKCLR900-1
	328	250713	Fire Brigade Map Box FPKPHZR900-1/D1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	31	214205	Fire Detection Control Module BCM216-3E
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	324	250901	Redundant Transmission Adapter ADFAT900-2/D1
	10	210112	Serial Interface Module SIM016-3

250606 Mounting Frame 19"/6HU RAHMEN

The Mounting Frame 19"/6HU is used for the accommodation of a Fire Brigade Control Unit FBF900-1 or FBF900-2 and a Control Unit AD900-1 in a 19" cabinet.



Specifications

Colour	grey white, RAL 9002
Weight	1.5kg

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	48	212028	Cabinet 19"/36HU GEH19/36
	311	265900	Control Unit for FSK AD900-1/D1
	321	250740	Fire Brigade Control Unit FBF900-1/D1
	321	250741	Fire Brigade Control Unit FBF900-2/D1

250608 Mounting Frame 19"/6HU RAHMEN/FBF

The Mounting Frame 19"/6HU is used for the accommodation of a Fire Brigade Control Unit FBF900-1 or FBF900-2 in a 19" cabinet.

Specifications

Colour	grey white, RAL 9002
Weight	1.5kg

Cross-references	Page	Art.No.	Name Type
	47	212027	Cabinet 19"/18HU GEH19/18
	48	212028	Cabinet 19"/36HU GEH19/36
	321	250740	Fire Brigade Control Unit FBF900-1/D1
	321	250741	Fire Brigade Control Unit FBF900-2/D1

268007 Fire Brigade Map Box FWP-1

The fire brigade map box is used for safekeeping alarm plans for the fire brigade operation at the location of the fire detection control panel. The metal box is designed for wall mounting and can hold maps in DIN A4 format. A manual call point lock is built in as standard and can optionally be replaced with a cylinder for steel sheet mounting.

Specifications

Dimensions W × H × D	350 × 400 × 110 (mm)
Colour	flame red, RAL 3000
Weight	4.2kg

250709 Fire Brigade Map Box FPKCLR900-1

The fire brigade map box is used for the storage of approx. 100 fire brigade alarm plans in DIN A4 and A3 format, fire brigade maps and building-specific technical data. The box is made of powder coated steel sheet and has an integrated security lock.

Specifications

Lock	DOM-CL1
Dimensions W × H × D	500 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	6.1kg

Cross-references	Page	Art.No.	Name Type
	325	250717	Fire Brigade Orientation Panel FOTR900-1/D1
	326	250902	Fire Brigade Orientation Panel FOTR900-2/D1

250713 Fire Brigade Map Box FPKPHZR900-1/D1

The fire brigade map box is used for the storage of approx. 100 fire brigade alarm plans in DIN A4 and A3 format, fire brigade maps and building-specific technical data. The box is made of powder coated steel sheet and has an integrated lock for half cylinders.

Specifications

Lock	bolt lock for half cylinder
Dimensions W × H × D	500 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	6.1kg

Cross-references	Page	Art.No.	Name Type
	325	250717	Fire Brigade Orientation Panel FOTR900-1/D1
	326	250902	Fire Brigade Orientation Panel FOTR900-2/D1

31 Fire Controls

217001 Smoke Switch RS24

In normal condition, the Smoke Switch RS24 provides the holding current for the fire controls that is needed to keep the fire doors, etc., open. In the event of a fire, the Smoke Switch RS24 recognises the alarm of a fire detector connected to the detector line and disconnects the supply of the connected fire controls – the fire doors close and thereby prevent the spreading of fire and smoke.

Features

- Conventional detector line with monitored quiescent current for automatic detectors or manual call points
- High output power for fire controls
- Dry contact for site-specific functions
- Activation and reset button integrated in the device

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	40VA
Output voltage	24VDC
Output power	max. 18W (in continuous operation)
Contact rating	30VDC/2A/60W
Ambient temperature	-10°C to +50°C
Protection class	IP43
Dimensions W × H × D	105 × 170 × 82 (mm)
Colour	light grey, RAL 7035
Weight	1kg

Cross-references	Page	Art.No.	Name Type
	141	246140	Detector Base/1000 ECO1000BR1000
	139	246008	Detector Base/400/300/100 B401RM
	176	246021	Detector Base/60/65 45681-200
	103	246070	Detector Base/600 FC600/BR
	114	241046	Optical-Thermal Detector/1000 ECO1002
	110	241041	Optical-Thermal Detector/300 2351TEM
	113	241045	Optical Smoke Detector/1000 ECO1003
	109	241040	Optical Smoke Detector/300 2351E
	85	241070	Optical Smoke Detector/600 FC600/O
	162	241026	Optical Smoke Detector/65 55000-317

260002 Control Device for Magnetic Lock Clamp 2498

The electronic control device is used for triggering a magnetic lock clamp. The magnetic lock clamp can be released by pushing the integrated button located behind a glass plate, by means of the built-in key switch or via a fire detection control panel.

Features

- Activation in conjunction with a fire detection control panel possible
- Two optical and one acoustic indicator signalise the operating status (door "CLOSED" or "OPEN")
- Integrated electronic buzzer activates when emergency button is pushed
- Surface case suitable for wall mounting in dry rooms

Specifications

Operating voltage	24VDC
Buzzer sound level	100dB
Dimensions W × H × D	120 × 170 × 60 (mm)
Weight	730g

Cross-references	Page	Art.No.	Name Type
	335	261019	Magnetic Lock Clamp/2750N 1388
	334	261018	Magnetic Lock Clamp/LED/4900N 1392

261003 Magnetic Clamp/500N 1330

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. It is connected by means of flexible wires.

Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet: 65 × 65 × 35 (mm) armature plate: 60 × 60 × 48 (mm)
Weight	420g

261004 Magnetic Clamp/Reset/500N 1350

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet that is fitted into a surface wall-mount housing as well as an armature plate with a tilt joint as counterpart. An interrupt button is located on the side of the housing.

Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet: 95 × 95 × 40 (mm) armature plate 60 × 60 × 48 (mm)
Weight	700g

261005 Magnetic Clamp/Reset/150mm/500N 1370/15

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor, on the ceiling or on the wall. The arm can be adjusted in the range 150mm to 180mm. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 150 - 180 (mm) armature plate: 60 × 60 × 48 (mm)
Weight	1.2kg

261006 Magnetic Clamp/Reset/300mm/500N 1370/30

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor, on the ceiling or on the wall. The arm can be adjusted in the range 300mm to 330mm. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 300 - 330 (mm) armature plate 60 × 60 × 48 (mm)
Weight	1.55kg

261008 Magnetic Clamp/1000N 1340

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. It is connected by means of flexible wires.

Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 65 × 65 × 38 (mm) armature plate 60 × 60 × 48 (mm)
Weight	650g

261009 Magnetic Clamp/Reset/1000N 1360

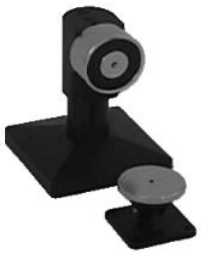
The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet that is fitted into a surface wall-mount housing as well as an armature plate with a tilt joint as counterpart. An interrupt button is located on the side of the housing.

Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 95 × 95 × 40 (mm) armature plate 60 × 60 × 48 (mm)
Weight	930g

261010 Magnetic Clamp/Reset/150mm/1000N 1380/15

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor, on the ceiling or on the wall. The arm can be adjusted in the range 150mm to 180mm. Release is possible via the integrated interrupt button.



Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 150 - 180 (mm) armature plate 60 × 60 × 48 (mm)
Weight	1.45kg

261011 Magnetic Clamp/Reset/300mm/1000N 1380/30

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor, on the ceiling or on the wall. The arm can be adjusted in the range 300mm to 330mm. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 300 - 330 (mm) armature plate 60 × 60 × 48 (mm)
Weight	1.8kg

261018 Magnetic Lock Clamp/LED/4900N 1392

The magnetic lock clamp with extra high magnetic force is used for locking doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamp 2498. The magnetic lock clamp is suitable for surface mounting in dry rooms and is delivered complete with counter plate and mounting accessories. An integrated function display indicates the active state of the magnet.

Specifications

Operating voltage	24VDC
Current consumption at 24V	250mA
Adhesive force	approx. 4900N (490kg)
Working temperature	-5°C to +50°C
Dimensions L × W × D	270 × 67 × 41 (mm)
Weight	4.2kg

Cross-references	Page	Art.No.	Name Type
	330	260002	Control Device for Magnetic Lock Clamp 2498

261019 Magnetic Lock Clamp/2750N 1388

The magnetic lock clamp with extra high magnetic force is used for locking doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamp 2498. The magnetic lock clamp is suitable for surface mounting in dry rooms and is delivered complete with counter plate and mounting accessories.

Specifications

Operating voltage	24VDC
Current consumption at 24V	250mA
Adhesive force	approx. 2750N (275kg)
Working temperature	-5°C to +50°C
Dimensions L × W × D	268 × 48 × 25 (mm)
Weight	2kg

Cross-references	Page	Art.No.	Name Type
	330	260002	Control Device for Magnetic Lock Clamp 2498

32 Batteries and Power Supply Devices

310006 Stand-By Battery 12V/2,3AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	2.3Ah min. at 20 hours discharge
Dimensions L × W × H	178 × 34 × 65 (mm) max.
Weight	max. 1.1kg
Approval	approved by VdS

310001 Stand-By Battery 12V/7AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	7Ah min. at 20 hours discharging time
Dimensions L × W × H	152 × 65 × 100 (mm) max.
Weight	max. 2.4kg
Approval	approved by VdS

Cross-references	Page	Art.No.	Name Type
	51	210223	Fire/Extinguishing Control Panel BC06-1EXT/INT1
	53	210224	Fire/Extinguishing Control Panel BC06-2EXT/INT1
	1	210205	Fire Detection Control Panel BC06-1/INT1
	3	210209	Fire Detection Control Panel BC06-2/INT1

310002 Stand-By Battery 12V/18AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	18Ah min. at 20 hours discharge
Dimensions L × W × H	181 × 76 × 167 (mm) max.
Weight	max. 6.3kg
Approval	approved by VdS

Cross-references	Page	Art.No.	Name Type
	41	214003	Auxiliary Housing For BC216 GEH216-4
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1

6	210102	Fire Detection Control Panel BC016-1/INT1
13	214008	Fire Detection Control Panel BC216-1/INT1
16	214308	Fire Detection Control Panel BC216-1S/INT1
80	252010	LED Display Tableau LAT288-1

310012 Stand-By Battery 12V/20AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, it was possible to achieve a still higher energy density. The dimensions of this type series correspond to those of an 18Ah accumulator.

Specifications

Nominal voltage	12V
Capacity	20Ah at 20 hours discharge
Dimensions L × W × H	181 × 76 × 167 (mm) max.
Weight	6.4kg max.

Cross-references	Page	Art.No.	Name Type
	41	214003	Auxiliary Housing For BC216 GEH216-4
	29	214105	BCnet Control Panel No Operat.19" BC216-3CE
	25	214005	BCnet Control Panel No Operation BC216-3
	22	214056	BCnet Control Panel with Operat. BC216-2/INT1
	8	210122	Fire Detection and Evacuation Panel BC016-2/INT1
	27	214108	Fire Detection Control Panel 19" BC216-1CE/INT1
	6	210102	Fire Detection Control Panel BC016-1/INT1
	13	214008	Fire Detection Control Panel BC216-1/INT1
	16	214308	Fire Detection Control Panel BC216-1S/INT1
	80	252010	LED Display Tableau LAT288-1

310003 Stand-By Battery 12V/26AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	26Ah min. at 20 hours discharge
Dimensions L × W × H	167 × 175 × 125 (mm) max.
Weight	max. 9.6 kg
Approval	approved by VdS

310004 Stand-By Battery 12V/45AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	45Ah min. at 20 hours discharge
Dimensions L × W × H	197 × 165 × 170 (mm) max.
Weight	max. 14.8kg
Approval	approved by VdS

Cross-references	Page	Art.No.	Name Type
	341	317030	Power Supply Housing NTG24-1

339 317020 Power Supply Module NTM2402-1

310005 Stand-By Battery 12V/65AH

The maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge is suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	65Ah min. at 20 hours discharge
Dimensions L × W × H	350 × 166 × 175 (mm) max.
Weight	max. 23.7kg
Approval	approved by VdS

Cross-references	Page	Art.No.	Name Type
	30	214997T	BCnet Sectional Control Panel/OP. BC216-2EPS
	30	214204	Fire Detection Control Module/PS BCM216-3EPS
	342	317032	Power Supply Housing NTG24-2
	340	317021	Power Supply Module NTM2408-1

317100 Power-Supply 24V/1A-Stabilized NG1-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

Features

- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	100 to 240VAC, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	1A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	53 (3 horizontal pitch units) × 93 × 69 (mm)
Colour	light grey, RAL 7035
Weight	150g

317101 Power-Supply 24V/2A-Stabilized NG2-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

Features
- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	100 to 240VAC, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	2A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	105 (6 horizontal pitch units) × 93 × 67 (mm)
Colour	light grey, RAL 7035
Weight	380g

317102 Power-Supply 24V/4A-Stabilized NG4-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

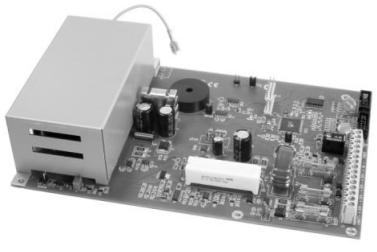
Features
- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	100 to 240VAC, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	4A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	140 (8 horizontal pitch units) × 93 × 67 (mm)
Colour	light grey, RAL 7035
Weight	400g

317020 Power Supply Module NTM2402-1

The Power Supply Module NTM2402-1 is an autonomous componentry for the supply of devices, which require a failure-safe power supply with a nominal voltage of 24VDC.



The module fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Directive CPD.

In case of mains voltage failure, the module continues to provide current from optionally connected stand-by batteries. The mains voltage is transformed by the integrated switched-mode power supply to the current-limited and short circuit-protected output voltage, that is required for connected loads and optional stand-by batteries. The maximum load current varies depending on the battery capacity. For a theoretical charging time of 24 hours, stand-by batteries with a maximum capacity of 60Ah can be charged.

Battery monitoring includes periodic measurements of the battery voltage under load and of the internal resistance of the batteries, according to EN 54-4:2006. The earth leakage

monitoring of the module can be deactivated for special applications by removing a jumper.

The power supply module is prepared for installation in the Power Supply Housing Series NT24.

Features
- High efficiency through modern switched-mode power supply technology, current-limited and short circuit-protected
- Long lifespan of stand-by batteries through temperature-compensated battery charging
- Seven LED indicators for indication of operation and causes of fault (in combination with the power supply housing or the power supply front panel)
- Integrated mains fuse

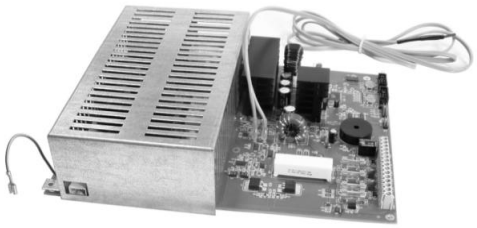
Specifications

Mains voltage	230VAC +10/-20%, 47 to 63Hz
Output voltage	typ. 27.6VDC
Output peak current	2.3A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	230 × 150 × 52 (mm)
Weight	approx. 0.5kg
Approval	VdS G208124 0786-CPD-20528

Cross-references	Page	Art.No.	Name Type
	342	317031	Power Supply Front Panel NTG24-1CE
	341	317030	Power Supply Housing NTG24-1
	337	310004	Stand-By Battery 12V/45AH

317021 Power Supply Module NTM2408-1

The Power Supply Module NTM2408-1 is an autonomous componentry for the supply of devices, which require a failure-safe power supply with a nominal voltage of 24VDC. The module fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Directive CPD.



In case of mains voltage failure, the module continues to provide current from optionally connected stand-by batteries. The mains voltage is transformed by the integrated switched-mode power supply to the current-limited and short circuit-protected output voltage, that is required for connected loads and optional stand-by batteries. The maximum load current varies depending on the battery capacity. For a theoretical charging time of 24 hours, stand-by batteries with a maximum capacity of 220Ah can be charged.

Battery monitoring includes periodic measurements of the battery voltage under load and of the internal resistance of the batteries, according to EN 54-4:2006. The earth leakage monitoring of the module can be deactivated for special applications by removing a jumper.

The power supply module is prepared for installation in the Power Supply Housing Series NT24.

Features
- High efficiency through modern switched-mode power supply technology, current-limited and short circuit-protected
- Long lifespan of stand-by batteries through temperature-compensated battery charging

- Seven LED indicators for indication of operation and causes of fault (in combination with the power supply housing or the power supply front panel)
- Integrated mains fuse

Specifications

Mains voltage	230VAC +10/-20%, 47 to 63Hz
Output voltage	typ. 27.6VDC
Output peak current	8.4A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × D	290 × 220 × 70 (mm)
Weight	approx. 1.5kg
Approval	VdS G208125
	0786-CPD-20529

Cross-references	Page	Art.No.	Name Type
	342	317031	Power Supply Front Panel NTG24-1CE
	341	317030	Power Supply Housing NTG24-1
	342	317032	Power Supply Housing NTG24-2
	338	310005	Stand-By Battery 12V/65AH

317030 Power Supply Housing NTG24-1

The Power Supply Housing NTG24-1 accommodates one Power Supply Module Series NT24. The housing in a stable powder coated steel sheet design is prepared for wall mounting.

The housing provides space for the power supply module as well as for the installation of stand-by batteries 2 × 12V/max. 45Ah, one Relay Module RL58-1 or RL58-2 and one Multi Module MEA244-1/E. If required, further modules can be mounted in the front door.

The operating and display board on the front-side of the housing includes LED indicators for display of operating conditions and fault conditions and allows for the reset of the internal buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Cable entry can either be on the top side, bottom side or back side of the housing.

Specifications

Protection class	IP30
Dimensions W × H × D	442 × 460 × 203 (mm)
Colour	grey white, RAL 9002
Weight without installations	approx. 7kg

Cross-references	Page	Art.No.	Name Type
	135	249095	Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E
	339	317020	Power Supply Module NTM2402-1
	340	317021	Power Supply Module NTM2408-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	337	310004	Stand-By Battery 12V/45AH

317031 Power Supply Front Panel NTG24-1CE

The Power Supply Front Panel NTG24-1/CE accommodates one Power Supply Module Series NT24. The front panel is made of powder coated sheet steel and can, due to its intelligent design, either be accommodated in a pivoting frame in 19" design or mounted on a mounting plate of a 19" cabinet. In both cases, the optional stand-by batteries are accommodated in the interior of the 19" cabinet.

Besides the power supply module, it provides space for the installation of one Relay Module RL58-1 or RL58-2. The operating and display board on the front-side includes LED indicators for the display of operating conditions and fault conditions and allows for the reset of the internal buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 20 (mm, without power supply module)
Colour	grey white, RAL 9002
Weight without installations	approx. 1.4kg

Cross-references	Page	Art.No.	Name Type
	339	317020	Power Supply Module NTM2402-1
	340	317021	Power Supply Module NTM2408-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1

317032 Power Supply Housing NTG24-2

The Power Supply Housing NTG24-2 accommodates one Power Supply Module Series NT24. The housing in a stable powder coated sheet steel design is prepared for wall mounting. Besides the power supply module, it provides space for the installation of stand-by batteries 4 × 12V/max. 85Ah, one Relay Module RL58-1 or RL58-2 and one Multi Module MEA244-1/E.

The operating and display board on the front-side of the housing provides LED indicators for display of operating conditions and fault conditions and allows for the reset of the internal buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Cable entry can either be on the top side or bottom side of the housing.

One flange plate with apertures to break out, one Mounting Bracket BW216-1 and two Battery Brackets BK24-1 are provided with the power supply housing. The installation of two additional battery brackets is recommended, if the bottom side of the housing is used as cable entry point, otherwise stand-by batteries are standing on the flange plate and prevent a cable entry.

Specifications

Protection class	IP30
Dimensions W × H × D	800 × 1000 × 300 (mm)
Colour	light grey, RAL 7035
Weight without installations	approx. 65kg

Cross-references	Page	Art.No.	Name Type
	343	317033	Battery Bracket BK24-1
	135	249095	Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E
	339	317020	Power Supply Module NTM2402-1
	340	317021	Power Supply Module NTM2408-1
	70	222010	Relay Module 4-Fold/230VAC RL58-2
	70	222004	Relay Module 8-Fold/60VDC RL58-1
	338	310005	Stand-By Battery 12V/65AH

317033 Battery Bracket BK24-1

The Battery Bracket BK24-1 is prepared for simple and secure installation of stand-by batteries in the Power Supply Housing NTG24-2 or in a 19" cabinet. The stable steel sheet design can accommodate a maximum of either one stand-by battery 12V/65Ah or 12V/85Ah, or two stand-by batteries 12V/45Ah.

Specifications

Dimensions W × H × D	370 × 195 × 209 (mm)
Material	sheet steel, galvanised
Weight	approx. 1.8kg

Cross-references	Page	Art.No.	Name Type
	342	317032	Power Supply Housing NTG24-2

229010 Voltage Stabilizer 24VDC STAB24-1

By using the Voltage Stabiliser STAB24-1, the voltage fluctuations of the output voltages that are conditional upon the charging logic of the fire detection control panels are kept to a minimum, which guarantees optimum operation of the supplied modules.

Features

- High efficiency
- Easy installation
- Small dimensions

Specifications

Supply voltage (input)	19 to 36VDC
Supply voltage (output)	24VDC ±2%
Output power	max. 10W
Efficiency	approx. 80%
Output current	min. 50mA / max. 410mA
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	75 × 40 × 15 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	63	223030	Long-Distance Modem BCnet216 MOD-1

33 Software

218008 Parameter Setup Software PARSOFT-2

The Parameter Setup Software PARSOFT-2 allows for the creation, download, modification and upload of the site-specific parameters of a Fire Detection Control Panel Series BC216 and Series BC016 as well as an Extinguishing Control Panel Series LC216 in a clear and time-saving way. In addition, you can use PARSOFT-2 to load a firmware update into the connected device or read the event memory of the control panel and display it on a monitor.

Furthermore, the parameters of various peripheral devices (e.g., Remote Tableau Drive Unit PTU288-1, Remote Tableau SG70-1, Fire Brigade Control Unit FBF70-1) can be created, downloaded from and uploaded to the device by means of PARSOFT-2. It is also possible to update the firmware of these peripheral devices.

The software is available in several languages and can be used on any IBM-compatible PC with operating system Windows 95/98/NT4.0/2000/XP, provided that the following minimum requirements are met:

- Pentium/500MHz processor, 256MB RAM
- At least 20MB free hard disk space
- CD-ROM drive
- Free serial interface with 9-pin connector or TCP/IP connection
- USB 2.0 interface (for devices with USB connection; Windows 2000/XP is however required therefor)
- PC keyboard, mouse, optional: printer

One of the serial interfaces of the BCnet sectional control panel that has been parameterised as main operating unit of a Fire Detection Control Panel BCnet216 (or of the Fire Detection Control Panel BC216-1, BC216-1CE, BC216-1S, BC016, respectively) must be provided with a Serial Interface Module SIM216-1, so that the PC can be connected.

218041 Alarm-Monitoring-Software-Licence ALVIS/F

The alarm monitoring software license is required for using an operation control system for alarm reporting systems. The software allows for a concise depiction of the ground plans as well as detailed views of the facility.

The alarm monitoring software is a modular system with a modern user interface and can be configured according to your individual needs. The system allows for a comfortable uniform operation and control of the alarm reporting system. Depending on the configuration of the user interface, overview screens and photos of the facility can be displayed at any time, thus providing an optimal and quick overview in any situation.

Detail screens inform about all important events and report them chronologically as well as by type. Each event triggered by a detector can be located with the respective detector on the corresponding ground plan by a simple mouse click. Depending on the authorisation level, operations regarding the fire detection system (disablement of detectors, operating units, actuations, etc.) can be carried out for every data point. Any status change in the system implicates also that the colour of the respective symbol changes. Additional functions such as display of users logged on, the event-dependent display of screen windows, event-driven time programs, catalogue of measures, etc., can be defined if required.

By using sample symbols, the parameters for similar functions can be set easily and quickly during a new installation as well as in the course of enhancements or modifications.

Specifications

Operating system	at least Windows 2000 Professional
Minimum requirements PC	Pentium, 512MB RAM, RS232 interface for the connection of the fire detection control panel, mouse, keyboard, USB interface for Dongle, 1GB HDD, graphics card for 2 monitors

218044 Alarm-Monitoring-Interface-Licence ALVIS-BC216

The alarm monitoring interface license allows for the operation of the DDE server, which controls the event-driven communication between the operation control system and the Fire Detection Control Panel Series BC216. The DDE server runs as independent task in parallel to the visualisation user interface of the alarm monitoring system.

218045 Alarm-Monitoring-Interface-Licence ALVIS-LBC1000

The Alarm Monitoring Interface Licence ALVIS-LBC1000 enables the service of the DDE server, which controls the event-dependent communication between the alarm monitoring system and the Fire Detection Control Panel Series LBC1000. The DDE server operates as an independent task parallel to the user interface of the alarm monitoring system.

34 Tools

249220 Detector Test Kit Smoke/Thermo 1001-101

The detector tester 1000 is used to check the correct activation of smoke detectors, thermal detectors or optical-thermal detectors. For testing a smoke sensor, smoke is generated inside the tester. For that purpose, a replaceable capsule is placed in the tester. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multicriteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests - by means of smoke or heat - are to be carried out simultaneously or one after the other. Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

The detector tester can be used together with the Telescopic Pole SOLO100 or the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 1001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a USB cable and the user manual on CD.

Specifications

Power supply	NiMH battery 7.2V/2.2Ah
Battery charging time	max. 90min.
Ambient temperature	5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Dimensions test device Ø × H	153 × 224 (mm)
Weight	750g

Cross-references	Page	Art.No.	Name Type
	349	249054	Extension Pole SOLO101
	347	249222	Replacement Smoke Capsules TS3-001
	348	249053	Telescopic Pole SOLO100

249221 Detector Test Kit Smoke/Thermo/CO 2001-101

The detector tester 2000 is used to check the correct activation of smoke detectors, thermal detectors or carbon monoxide detectors, or of multicriteria detectors which respond to these three characteristics of fire. For testing a smoke or CO sensor, smoke or carbon monoxide, respectively, is generated inside the tester. For that purpose, two different replaceable capsules are placed in the tester. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multicriteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests - by means of smoke, CO or heat - are to be carried out simultaneously or one after the other. Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

The detector tester can be used together with the Telescopic Pole SOLO100 or the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 2001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a CO capsule, a USB cable and the user manual on CD.

Specifications

Power supply	NiMH battery 7.2V/2.2Ah
Battery charging time	max. 90min.
Ambient temperature	5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Dimensions test device Ø × H	153 × 273 (mm)
Weight	900g

Cross-references	Page	Art.No.	Name Type
	349	249054	Extension Pole SOLO101
	347	249223	Replacement CO Capsules TC3-001
	347	249222	Replacement Smoke Capsules TS3-001
	348	249053	Telescopic Pole SOLO100

249222 Replacement Smoke Capsules TS3-001

The replacement capsule is put into a detector tester 1000 or 2000 for generating smoke.

Cross-references	Page	Art.No.	Name Type
	346	249221	Detector Test Kit Smoke/Thermo/CO 2001-101
	346	249220	Detector Test Kit Smoke/Thermo 1001-101

249223 Replacement CO Capsules TC3-001

The replacement capsule is put into a detector tester 2000 for generating carbon monoxide.

Cross-references	Page	Art.No.	Name Type
	346	249221	Detector Test Kit Smoke/Thermo/CO 2001-101

249059 Test Module/100/200 MOD400R

The measuring adapter MOD400R is used to read out measured values from optical or ionisation smoke detectors Series 100 and 400. The test module transforms the measured value into a DC voltage signal, which is measured by a multimeter. Thereby, the sensitivity of a detector can be assessed during maintenance. A sufficient sensitivity is one of the most important criteria for avoiding false alarms.

Features

- Terminals for multimeter
- Easy readout of measured values without an alarm activation of the detector
- Battery lifespan approx. one year

Specifications

Operating voltage	9VDC (block battery)
Ambient temperature	0°C to +50°C
Dimensions L × W × H	114 × 79 × 31 (mm)
Connection	4mm sockets
Colour	black
Weight	238g

249036 Test Gas Can SOLOA3-001

The test gas can contains a non-polluting test gas for checking the function of automatic smoke detectors. The can is suitable for use with Smoke Detector Test Tools FPD05 and SOLO330.

Cross-references	Page	Art.No.	Name Type
	348	249051	Smoke Detector Test Tool SOLO330

249051 Smoke Detector Test Tool SOLO330

The smoke detector test tool is used for checking automatic smoke detectors by means of non-polluting test gas. The transparent head of the test tool provides intervisibility with the detector activation LED indicator and thus saves test gas. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places, which can be accessed only with difficulty. With the optional Telescopic Pole SOLO100, it is possible to check detectors, which are mounted in rooms of up to 7m height.

Cross-references	Page	Art.No.	Name Type
	349	249054	Extension Pole SOLO101
	348	249053	Telescopic Pole SOLO100
	348	249036	Test Gas Can SOLOA3-001

249052 Detector Removal Tool SOLO200

The universal detector removal tool is used for removing and reinstalling punctiform automatic fire detectors of various dimensions. The clamping mechanism is flexibly mounted on a pole of 0.65 m length and can, therefore, be used even for mounting places that are difficult to access. With the optional Telescopic Pole SOLO100, it is possible to reach detectors, which are mounted in rooms of up to 7m height.

Cross-references	Page	Art.No.	Name Type
	349	249054	Extension Pole SOLO101
	348	249053	Telescopic Pole SOLO100

249053 Telescopic Pole SOLO100

The fibreglass telescopic pole is needed to individually adjust the detector testers 1000, 2000 and SOLO330 as well as the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2m in retracted condition. The total length in extracted condition is 4.5m; you can, therefore, reach detectors mounted at a height of up to approx. 6m. Together with up to 3 Extension Poles SOLO101, the telescopic pole allows you to reach detectors which are mounted at a room height of up to approx. 9m.

Cross-references	Page	Art.No.	Name Type
	348	249052	Detector Removal Tool SOLO200
	346	249221	Detector Test Kit Smoke/Thermo/CO 2001-101
	346	249220	Detector Test Kit Smoke/Thermo 1001-101
	349	249054	Extension Pole SOLO101
	148	246112	Satellite Progr. And Test Unit S300SAT
	348	249051	Smoke Detector Test Tool SOLO330

249054 Extension Pole SOLO101

The fibreglass extension pole with a length of 1.2m is needed for using the detector testers 1000, 2000 and SOLO330 as well as the Detector Removal Tool SOLO200 at room heights of up to approx. 2.5m. By connecting up to 3 extension poles with each other, the maximum room height can be increased to approx. 4.5m. Together with the Telescopic Pole SOLO100, it is possible to reach detectors, which are mounted in rooms of up to 9m height.

Cross-references	Page	Art.No.	Name Type
	348	249052	Detector Removal Tool SOLO200
	346	249221	Detector Test Kit Smoke/Thermo/CO 2001-101
	346	249220	Detector Test Kit Smoke/Thermo 1001-101
	148	246112	Satellite Progr. And Test Unit S300SAT
	348	249051	Smoke Detector Test Tool SOLO330

249058 Testset/Conventional/60 53832-020

The measuring device is used for electrical testing of automatic detectors Series 60 and 65 in conventional technology on-site during maintenance. Each test set is provided with a continuity tester, mains adapter and a portable case with shoulder straps.

Features

- Easy to handle
- Menu-controlled test program
- Automatic execution of a series of tests for selected detector types
- Two buttons for selection and operation
- LC-display
- Automatic switching on/off
- Beep option to initiate action
- Red LED indicator lights up if a detector subjected to a test changes into the alarm condition

249023 Smoke Sticks/10pcs. RE2

Smoke sticks for test activation of optical smoke detectors.

35 Miscellaneous

229004 Alarm Resistor/100pcs. 1K/0,33W

The packing unit contains 100 pieces of 1kOhm resistors, which are to be used with contact detectors in conventional technology (e.g., manual call points). Resistors limit the line current of the detector line during alarm activation of the contact detector and serve to distinguish between a short circuit and an alarm.

229005 EOL Resistor/100pcs. 5,6K/0,33W

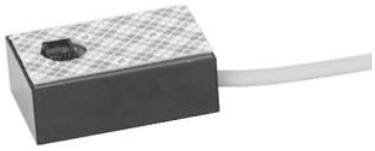
The packing unit contains 100 pieces of 5.6kOhm resistors, which are to be used as line terminator (end-of-line resistor) of a detector line in conventional technology of Fire Detection Control Panels Series BC216, BC016 and BC06.

229006 Diode/100pcs. 1N4004

The packing unit contains 100 pieces of 1N4004 diodes, which are to be used as blocking diode in case of negative monitoring voltages (e.g., Control Zone Module SLM1-2, Siren Connection Module SZ58-2 and SZ58-3) or as recovery diode for inductive loads.

180001 Banknote Contact 12V-24V GK1224

Banknote contacts are semi-automatic hold-up detectors for the surveillance of banknote-packages in cash desks of financial institutions. The Banknote Contact GK1224 works noiselessly due to the use of the principle of light reflection without any physical contacts. At withdrawal of the surveilled banknote-package, the detector switches to the state of alarm.



Specifications

Supply voltage	10 - 30VDC
Current consumption (quiescent)	15mA (12V)
	30mA (24V)
Switching distance	5 - 20mm
Alarm delay	2.5s
Alarm contact	change-over contact 30VDC/0.5A
Connection cable	5 wire, 2m
Ambient temperature	0°C to +50°C
Colour	black
Dimensions W × L × H	30 × 45 × 16 (mm)
Weight	60g

Approval VSÖ 961021/27

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We hope that this product survey enabled an easy search for and selection of articles suitable for you. If you are in need of further special documentation or if you are interested in special products not contained in the Product Guide please do not hesitate to contact us. We are pleased to be of personal assistance to you.

We can assure you that customer service is of highest value for LST. We will do whatever possible to complete your inquiries and your orders as fast as possible and to your convenience.

We would be pleased to count also you among our ever expanding number of customers.

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General Terms Of Delivery

General Terms of Delivry

issued by the Austrian Electrical and Electronics Industry Association

1 Scope

1.1 These General Terms shall govern legal transactions between business enterprises, namely the delivery of commodities and, mutatis mutandis, the rendering of services. Software transactions are with precedence governed by the Software Conditions issued by the Austrian Electrical and Electronics Industry Association, assembly work by the Terms and Conditions for Assembly Work issued by the Austrian Power Current and Light Current Engineering Industry and/or (where applicable) the Terms and Conditions for the Assembly of Electrical Equipment used in Medicine issued by the Austrian Electrical and Electronics Industry (the current versions are available at www.feei.at).

1.2 Any departure from the terms and conditions mentioned in 1.1 above shall be valid only if expressly accepted in writing by Seller.

2 Submission of offers

2.1 Seller's offers shall be deemed offers without engagement.

2.2 Tender documents and project documentation must not be duplicated nor made available to third parties without the permission of Seller. They may be claimed back at any time and shall be returned to Seller immediately if the order is placed elsewhere.

3 Conclusion of contract

3.1 The contract shall be deemed concluded upon written confirmation by Seller of an order received or upon dispatch of a delivery.

3.2 Particulars appearing in catalog, folders etc. as well as any oral or written statements shall only be binding if Seller makes express reference to them in the confirmation of the order.

3.3 Subsequent amendments of or additions to the contract shall be subject to written confirmation.

4 Prices

4.1 Prices shall be quoted ex works or ex Seller's warehouse without VAT, packing and packaging, loading, disassembly, take-back and proper recycling and disposal of waste electrical and electronic equipment for commercial purposes as defined by the Ordinance Regulating the Handling of Waste Electrical Equipment. Buyer shall be liable for any and all charges, taxes or other duties levied in respect of delivery. If the terms of delivery include transport to a destination designated by Buyer, transport costs as well as the cost of any transport insurance desired by Buyer shall be borne by the latter. Delivery does not, however, include unloading and subsequent handling. Packaging materials will be taken back only by express agreement.

4.2 Seller reserves the right to modify prices if the order placed is not in accordance with the offer submitted.

4.3 Prices are based on costs obtaining at the time of the first quotation. In the event that the costs have increased by the time of delivery, Seller shall have the right to adjust prices accordingly.

4.4 In carrying out repair orders, Seller shall provide all services deemed expedient and shall charge Buyer for the same on the basis of the work input and/or expenditures required. The same holds for any services or additional services the expediency of which becomes apparent only as the repair order is executed. ln such an event special notification of Buyer shall not be required.

4.5 Expenses for estimates of costs of repair and maintenance or for expert valuations shall be invoiced to Buyer.

5 Delivery

5.1 The period allowed for delivery shall commence at the latest of the following dates:
a) the date of order confirmation by Seller;
b) the date of fulfillment by Buyer of all the conditions, technical, commercial and other, for which he is responsible;
c) the date of receipt by Seller of a deposit or security due before delivery of the goods in question.

5.2 Buyer shall obtain whatever licences or approvals may be required from authorities or third parties for the construction of plant and equipment. If the granting of such licences or approvals is delayed for any reason the delivery period shall be extended accordingly.

5.3 Seller may carry out, and charge Buyer for, partial or advance deliveries. If delivery on call is agreed upon, the commodity shall be deemed called off at the latest one year after the order was placed.

5.4 In case of unforeseeable circumstances or circumstances beyond the parties control, such as all cases of force majeure, which impede compliance with the agreed period of delivery, the latter shall be extended in any case for the duration of such circumstances; these include in particular armed conflicts, official interventions and prohibitions, delays in transport or customs clearance, damages in transit, energy shortage and raw materials scarcity, labor disputes, and default on performance by a major component supplier who is difficult to replace. The aforesaid circumstances shall be deemed to prevail irrespective of whether they affect Seller or his subcontractor(s).

5.5 If a contractual penalty for default of delivery was agreed upon by contracting parties when the contract was concluded, it shall be executed as follows, and any deviations concerning individual items shall not affect the remaining provisions:
Where delay in performance can be shown to have occurred solely through the fault of Seller, Buyer may claim for each completed week of delay an indemnity of at most one half of one per cent, a total of no more than 5 %, however, of the value of that part of the goods to be delivered which cannot be used on account of Seller's failure to deliver an essential part thereof, provided the Buyer has suffered a damage to the aforesaid extent.
Assertion of rights of damages exceeding this extent is precluded.

6 Passage of risk and Place of performance

6.1 Enjoyment and risk shall pass to Buyer at the time of departure of the goods ex works or ex warehouse regardless of the terms of quotation (such as carriage paid, C.I.F. etc.) agreed upon. This provision also includes the case of shipment being effected, organised and supervised by Seller and the case of delivery being made in connection with assembly work to be undertaken by Seller.

6.2 For services the place of performance shall be the place at which the service is rendered; the risk in respect of such services or any part thereof that may have been agreed upon shall pass to Buyer at the time the services have been rendered.

7 Payment

7.1 Unless otherwise agreed, one third of the purchase price shall fall due at the time of receipt by Buyer of the order confirmation of Seller, one third after half the delivery period has elapsed and the balance at the time of delivery. Irrespective thereof the turnover tax comprised in the amount of the invoice shall be paid within 30 days of the invoice date.

7.2 In the case of part settlements the individual part payments shall fall due upon receipt of the respective invoices. The same shall apply to amounts invoiced for additional deliveries or resulting from additional agreements beyond the scope of the original contract, irrespective of the terms of payment agreed upon for the principal delivery.

7.3 Payment shall be made without any discount free Seller's domicile in the agreed currency. Drafts and checks shall be accepted on account of payment only, with all interest, fees and charges in connection therewith (such as collection and discounting charges) to be borne by Buyer.

7.4 Buyer shall not be entitled to withhold or offset payment on the grounds of any warranty claims or other counterclaims.

7.5 Payment shall be deemed to have been effected on the date at which the amount in question is at Seller's disposal.

7.6 If Buyer fails to meet the terms of payment or any other obligation arising from this or other transactions, Seller may without prejudice to his other rights
a) suspend performance of his own obligations until payments have been made or other obligations fulfilled, and exercise his right to extend the period of delivery to a reasonable extent,
b) call in debts arisen from this or any other transactions and charge default interest amounting to 1.25 % per month plus turnover tax for these amounts beginning with the due dates, unless Seller proves costs exceeding this.
In any case Seller has the right to invoice all expenses arising prior to a lawsuit, especially reminder charges and lawyer's fees.

7.7 Discounts or bonuses are subject to complete payment in due time.

7.8 Seller retains title to all goods delivered by him until receipt of all amounts invoiced including interests and charges.
Buyer herewith assigns his claim out of a resale of conditional commodities, even if they are processed, transformed or combined with other commodities, to Seller to secure the latter's purchase money claim. In the case of resale granting respite Buyer shall have the power of disposal of the product under retention of ownership only with the proviso that upon reselling Buyer notifies the secondary buyer of the assignment for security or enters the assignment in his account books. Upon request Buyer has to notify the assigned claim and the debtor thereof to Seller, and to make all information and material required for his debt collection available and to notify the assignment to the third-party debtor. If the goods are attached or otherwise

levied upon, Buyer shall draw attention to Sellers title and immediately inform Seller of the attachment or levy.

8 Warranty and acceptance of obligation to repair defects

8.1 Once the agreed terms of payment have been complied with, Seller shall, subject to the conditions hereunder, remedy any defect existing at the time of acceptance of the article in question whether due to faulty design, material or manufacture, that impairs the functioning of said article. From particulars appearing in catalogues, folders, promotional literature as well as written or oral statements which have not been included in the agreement no warranty obligations may be deduced.

8.2 Unless special warranty periods operate for individual items the warranty period shall be 12 months. These conditions shall also apply to any goods supplied, or services rendered in respect of goods supplied, that are firmly attached to buildings or the ground. The warranty period begins at the point of passage of risk acc. to paragraph 6.

8.3 The foregoing warranty obligations are conditional upon the Buyer giving immediate notice in writing of any defects that have occurred and such notice reaching the Seller. Buyer shall prove immediately the presence of a defect, in particular he shall make available immediately to Seller all material and data in his possession. Non-observance of Buyer's obligation to give immediate notice of the defect invalidates the right of claiming consequential harm caused by a defect. Upon receipt of such notice Seller shall, in the case of a defect covered by the warranty under 8.1 above, have the option to replace the defective goods or defective parts thereof or else to repair them on Buyer's premises or have them returned for repair, or to grant a fair and reasonable price reduction.

8.4 Any expenses incurred in connection with rectifying defects (e.g. expenses for assembly and disassembly, transport, waste disposal, travel and site-to-quarters time) shall be borne by Buyer. For warranty work on Buyer's premises Buyer shall make available free of charge any assistance, hoisting gear, scaffolding and sundry supplies and incidentals that may he required. Replaced parts shall become the property of Seller.

8.5 If an article is manufactured by Seller on the basis of design data, design drawings, models or other specifications supplied by Buyer, Seller's warranty shall be restricted to non-compliance with Buyers specifications.

8.6 Seller's warranty obligation shall not extend to any defects due to assembly and installation work not undertaken by Seller, inadequate equipment, or due to non-compliance with installation requirements and operating conditions, overloading of parts in excess of the design values stipulated by Seller, negligent or faulty handling or the use of inappropriate materials, nor for defects attributable to material supplied by Buyer. Nor shall Seller be liable for damage due to acts of third parties, atmospheric discharges. Excess voltage and chemical influences. The warranty does not cover the replacement of parts subject to natural wear and tear. Seller accepts no warranty for the sale of used goods.

8.7 The warranty shall lapse immediately if, without written consent of Seller, Buyer himself or a third party not expressly authorised undertakes modifications or repairs on any items delivered.

8.8 Claims acc. to § 933b ABGB are struck by the statute of limitation with lapse of the period mentioned under point 8.2.

8.9 The provisions of sub-paragraphs 8.1 to 8.7 shall apply, mutatis mutandis, to all cases where the obligation to repair defects has to be accepted for other reasons laid down by law.

9 Withdrawal from contract

9.1 Buyer may withdraw from the contract only in the event of delays caused by gross negligence on the part of Seller and only after a reasonable period of grace has elapsed. Withdrawal from contract shall be notified in writing by registered mail.

9.2 Irrespective of his other rights Seller shall be entitled to withdraw from the contract
a) if the execution of delivery or the inception or continuation of services to be rendered under the contract is made impossible for reasons within the responsibility of Buyer and if the delay is extended beyond a reasonable period of grace allowed;
b) if doubts have arisen as to Buyer's creditworthiness and if same fails, on Seller's request, to make an advance payment or to provide adequate security prior to delivery, or
c) if, for reasons mentioned in 5.4, the period allowed for delivery is extended by more than half of the period originally agreed or by at least 6 months.

9.3 For the reasons given above withdrawal from the contract shall also be possible in respect of any outstanding part of the delivery or service contracted for.

9.4 If bankruptcy proceedings are instituted against any contracting party or an application for bankruptcy proceedings against that party is not granted for insufficiency of assets, the other party may withdraw from the contract without allowing a period of grace.

9.5 Without prejudice to Seller's claim for damages including expenses arising prior to a lawsuit, upon withdrawal from contract any open accounts in respect of deliveries made or services rendered in whole or in part shall be settled according to contract. This provision also covers deliveries or services not yet accepted by Buyer as well as any preparatory acts performed by Seller. Seller shall, however, have the option alternatively to require the restitution of articles already delivered.

9.6 Withdrawal from contract shall have no consequences other than those stipulated above.

9.7 The assertion of claims on the ground of laesio enormis, error, or lapse of purpose by the Buyer is excluded.

10 Disposal of waste electrical and electronic equipment

10.1 The Buyer of electrical/electronic equipment for commercial purposes, incorporated in Austria, is responsible for the financing of the collection and treatment of waste electrical and electronic equipment as defined by the Ordinance Regulating the Handling of Waste Electrical Equipment, if he is himself the user of the electrical/electronic equipment. If the Buyer is not the end user, he shall transfer the full financial commitment to his customer by agreement and furnish proof thereof to the Seller.

10.2 The Buyer incorporated in Austria shall ensure that the Seller is provided with all information necessary to meet the Seller's obligations as manufacturer/importer, particularly according to §§ 11 and 24 of the Ordinance Regulating the Handling of Waste Electrical Equipment and the Waste Management Act.

10.3 The Buyer incorporated in Austria is liable vis-à-vis the Seller for any damage and other financial disadvantages incurred by Seller due to Buyer's failure to meet or fully meet his financing commitment or any other obligations according to Article 10. The Buyer shall bear the burden of proof of performance of this obligation.

11 Seller's liability

11.1 Outside the scope of the Product Liability Act, Seller shall be liable only if the damage in question is proved to be due to intentional acts or acts of gross negligence, within the limits of statutory provisions. Seller shall not be liable for damage due to acts of ordinary negligence nor for consequential damages or damages for pure economic loss, loss of profits, loss of savings or interest or damage resulting from third-party claims against buyer.

11.2 Seller shall not be liable for damages in case of non-compliance with instructions for assembly, commissioning and operation (such as are contained in instructions for use) or non-compliance with licensing requirements.

11.3 Claims that exceed the contractual penalties that were agreed on are excluded from the respective title.

12 Industrial property rights and copyrights

12.1 Buyer shall indemnify Seller and hold him harmless against any claims for any infringement of industrial property rights raised against him if Seller manufactures an article pursuant to any design data, design drawings, models or other specifications made available to him by Buyer.

12.2 Design documents such as plans and drawings and other technical specifications as well as samples, catalogues, prospectuses, pictures and the like shall remain the intellectual property of Seller and are subject to the relevant statutory provisions governing reproduction, imitation, competition etc. The provisions of 2.2 above shall also cover design documents.

13 General

Should individual provisions of the contract or of these provisions be invalid the validity of the other provisions shall not be affected. The invalid provision shall be replaced by a valid one, which comes as close to the target goal as possible.

14 Jurisdiction and applicable law

Any litigations arising under the contract including litigations over the existence or non-existence thereof shall fall within the exclusive jurisdiction of the competent court at Sellers domicile; the competent court of the Bezirksgericht Innere Stadt, Vienna, shall have exclusive jurisdiction if Seller is domiciled in Vienna. The contract is subject to Austrian law excluding the referral rules. Application of the UN Convention on Contracts for the lnternational Sale of Goods is renounced.